

The

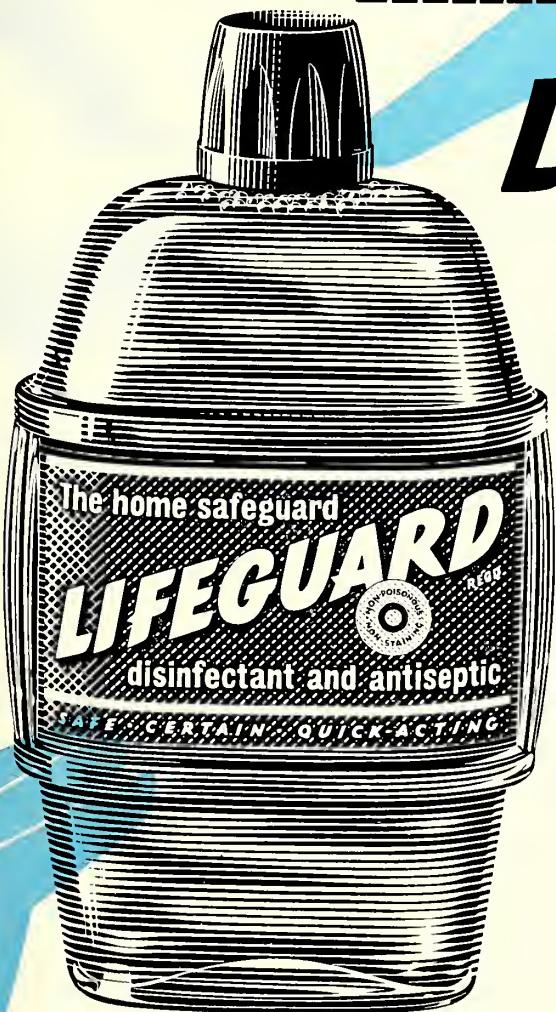


# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JUNE 12 1954

course, there's an ever-increasing demand for



## LIFEGUARD

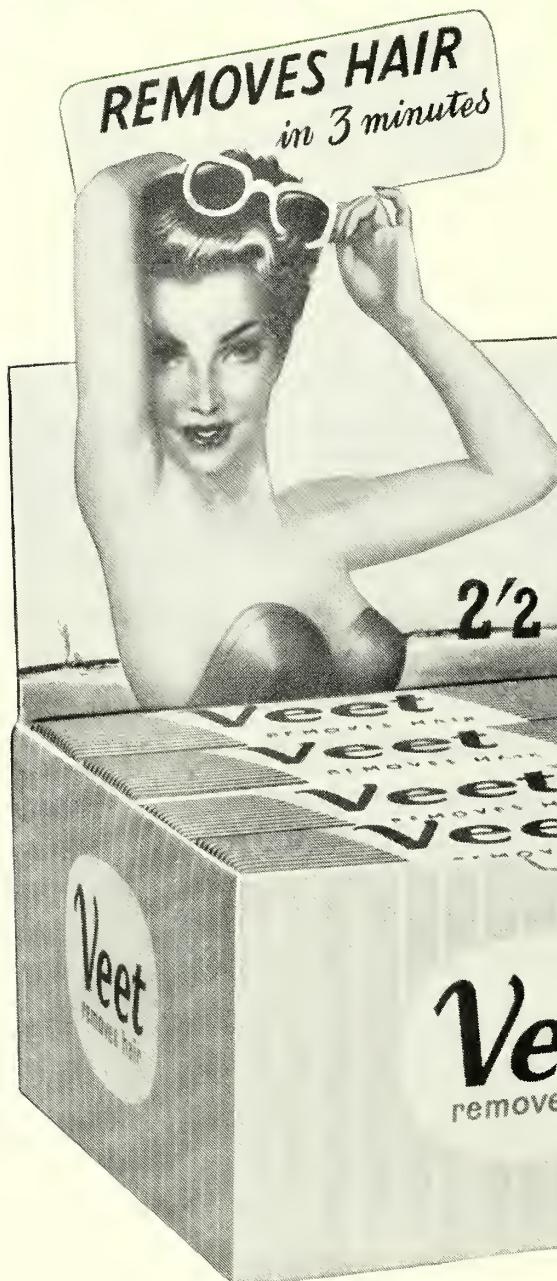
REGD.

THE SUPREME DISINFECTANT

- \* Bigger and bigger sales every year
- \* A name that inspires confidence
- \* A pack that's a display in itself
- \* Regular, widespread advertising
- \* Excellent terms

# VEET

## SUMMER BONUS OFFER



In return for a counter display we offer for TWO WEEKS only the following bonus:

ON 2/2d SIZE:  
**13 to the dozen (Minimum order for Bonus—1 doz.)**

ON 3/3d SIZE:  
**14 to the dozen (Minimum order for Bonus— $\frac{1}{2}$  doz.)** Offer definitely closes on June 18th.

**ORDER NOW!**

**NATIONAL  
ADVERTISING  
BIGGER  
THAN EVER!**

With your order you receive this eye-catching Display Container. See how it improves sales!

DAE HEALTH LABORATORIES LTD, 17 BERNERS STREET, LONDON, W.1

The outstanding reception accorded to Penidural products has resulted in a substantial reduction in manufacturing costs. In accordance with their established policy of passing on to the consumer economies effected, Wyeth are happy to announce

*a significant price reduction*

OF BOTH

# PENIDURAL

ORAL SUSPENSION

&

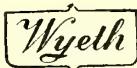
LONG-ACTING INJECTION

AS FROM MONDAY JUNE 14th 1954, THE NEW NETT PRICE TO RETAIL PHARMACISTS OF PENIDURAL ORAL SUSPENSION 60 c.c. AND PENIDURAL LONG-ACTING INJECTION 10 c.c. WILL BE

# 12/-

*Claims for rebate on stock held at closing time June 12th 1954 should quote batch numbers and must reach us by June 19th 1954*

*Please note that there is no alteration in the price of Penidural All-Purpose (1.2 mega units) at 4/- nett per vial. When this variety was introduced recently, allowance was made for an economical trade price.*



*Penidural* is a registered trade mark

JOHN WYETH & BROTHER LTD. CLIFTON HOUSE, EUSTON ROAD, LONDON, N.W.1

# Analgesic therapy

## aspirin? or calcium aspirin? or Solprin?

It is well known that both aspirin and calcium aspirin as generally prepared have physical and chemical defects which restrict their clinical use. Aspirin is acid and sparingly soluble: calcium aspirin is neutral, but unstable, and therefore unpredictable and unpalatable.

'Solprin' overcomes these defects, and combines the advantages of both these

valuable analgesics. In contrast with aspirin, 'Solprin' is soluble and substantially neutral: in contrast with calcium aspirin, 'Solprin' is stable and palatable.

Except in cases of extreme hypersensitivity, aspirin, in the form of 'Solprin' can be given in large doses over prolonged periods, without causing gastric or systemic disturbances.

## S O L P R I N

REGD.

*Stable, soluble, palatable calcium aspirin*

Solprin is not advertised to the public and is available only on prescription (U.K. and Northern Ireland only). Dispensing pack, price 7/6 (Purchase Tax Free) contains 300 tablets in foil.

*An EVANS Chemists speciality*

# MICROBAN

TRADE MARK

## Antiseptic Cream

(CONTAINING AMINACRINE)

for First-Aid in Homes and Factories

AMINACRINE HYDROCHLORIDE now recognised as the ideal first-aid antiseptic on account of its low toxicity and non-staining character, is the active constituent of MICROBAN, Evans Medical's antiseptic cream. Bland, non-greasy, MICROBAN is effective against a wide range of bacteria; and the name of Evans Medical guarantees the high quality of this product.



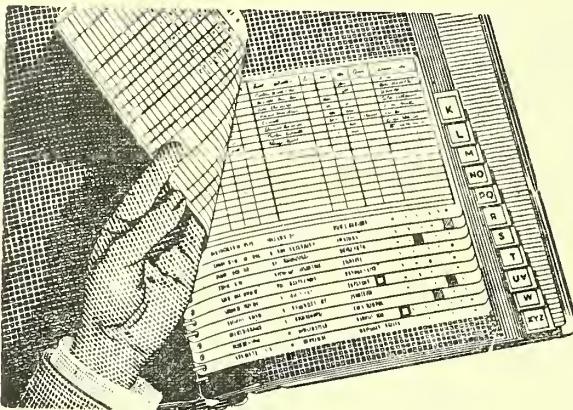
**MICROBAN** is issued in attractive blue tubes, and handsome display outers are provided with quantities of one dozen. Counter leaflets and Showcards are also available on request.

RETAIL PRICE 1/9 PER 25 g. TUBE. WHOLESALE PRICE 14/- PER DOZEN TAX FREE



**Microban is useful for relieving sunburn**

# WATCH THOSE DISCOUNTS



## New System Saves Time and Labour Yet Ensures Discount Reminders and Immediate Balances.

Chemists have so many items purchased from so many suppliers—with invoices coming in at each post. Invoice trouble is a common complaint.

A new speedy and flexible system has been devised at the request of many Chemists to overcome this difficulty.

Based on simple principles approved by the Accountancy profession, it not only reduces paper work but ensures the payment in time for special discounts.

A single binder contains a number of visible records—one for each supplier.

The edge of each record overlaps and is permanently visible. No pages to thumb through—a glance and a flick and you have the supplier. And on this visible edge is a colour signal to flash the latest time for discounts.

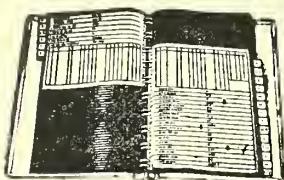
Invoices, as they come in, are safely housed in compact files pending a convenient moment. Quick and simple posting to the visible record, with an adjusted balance, enables an instant check of supplier's statement to be made. At any time a ledger balance can be struck in a matter of minutes. Annual audits are simplified.

The system is flexible. New suppliers can be entered in correct order quickly and auxiliary sheets can be added to cover considerable deliveries.

No wasted time on invoice posting . . . less paper work . . . quicker balance and statement check . . . and payment on time for discounts. Many Chemists advise us that the modest cost is covered by this last saving alone.

Just write "Chemists Sales & Purchase Ledger" on your letterheading or billhead for full details by return.

This simple principle has also been applied to Stocks and Customer Records. Add these if you require details.



**Shannon Systems**

VISIBLY BETTER RECORDS

THE SHANNON LTD.

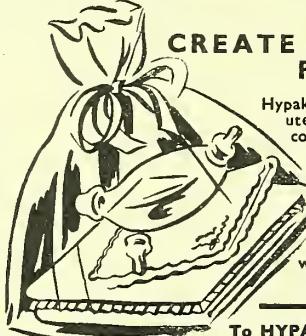
120 Shannon Corner,  
New Malden, Surrey.



REGISTERED TRADE MARK  
**HYPAK**  
BRAND

## Nursery Bags.

### CREATE RECORD SALES FOR CHEMISTS



Hypak Nursery Bags keep Baby's feeding utensils, clothes, toys and bed linen completely protected from all germs, dust, dirt and dampness. They're ideal too for carrying soiled nappies and clothes when travelling or visiting. Mothers have been quick to realise the advantages of this new line which is making up record sales in Chemists everywhere. Retail price is 4/9 per pack.

To HYPAK Division of

The OPPENHEIMER CASING Co. (U.K.) Ltd., 159-165 Harrow Rd.  
(insert Retailer or Wholesaler)

London, W.2

As a  I am interested in HYPAK Nursery Bags

Name

Address

(C & D 12/6/54)

Scottish Sales Depôt: Thornybark, Fountainbridge, Edinburgh, 3  
Telephone: Fountainbridge 1403

*WHAT IS BEST?*  
**Affacolor**

processed and finished by  
**TEMPO LABORATORIES LTD.**

80 ST. JOHNS ROAD  
TUNBRIDGE WELLS  
TELEPHONE: 21019

**FULL TRADE DISCOUNT**

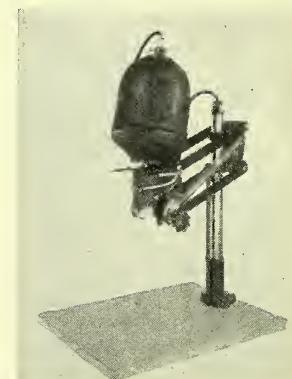
WE ARE ALSO AGENTS FOR THE

**PRIMOS**  
Junior

AUTOMATIC  
FOCUSING  
ENLARGER  
with f3.5 Lens  
RETAIL PRICE

**£48 • 14 • 6**

(INC. PUR. TAX)



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BUY DIRECT FROM THE MANUFACTURERS  
THE NEW RANGE OF CHEMISTS' DISPLAY UNITS

**NORLAND "CC"**  
Oak Chemist Counter (above)

Size: 6' long x 3' 3" high x 18" B. to F. (tapering at top to 15").

*Front View*—Display Section fitted 2 rows adjustable Glass Shelves, enclosed by a pair of Rimless Glass Sliding Doors, with Oak Polished interior. Flush ends and top.

*Rear View*—25 equal size Drawers (5" high by 5" wide) and three large Stock Drawers.

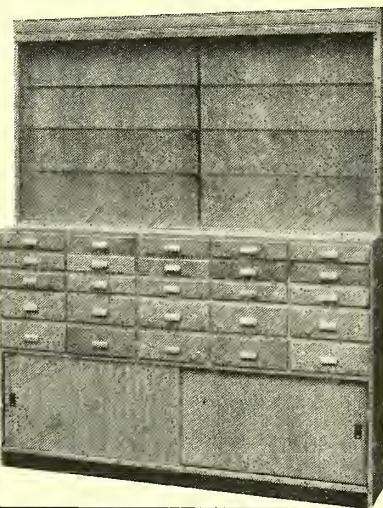
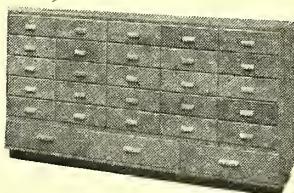
Price £45.0.0 Ex Works

**NORLAND "CU"**  
Oak Chemist Wallfitting  
(right)

7' high x 6' long x 8" B. to F. in Top Section and Bottom Section 3' 9" high x 15" B. to F. Fitted 25 Drawers. Bottom Section of Unit incorporates flush Oak Sliding Doors (to a height of 22") enclosing middle standard with Shelf either side.

*Display Section*: Polished Oak interior with 3 adjustable Glass Shelves enclosed by Rimless Glass Sliding Doors.

Price £70. 0. 0. Ex. Work:



SEND FOR CATALOGUE OF THE  
COMPLETE 'NORLAND RANGE'  
DEFERRED PAYMENTS  
CAN BE ARRANGED

**LIDDLE KEEN & CO. LTD.** (Store Fitment Manufacturers)  
19-23 NORLAND ROAD, LONDON, W.11. Phone: PARK 9881

Nearest Station: SHEPHERD'S BUSH (Central Line)

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*From the Carnegie Range of Fine Chemicals*

SODIUM *p*-AMINOSALICYLATE  
POWDER

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001

(6 lines)



**Anusol**  
**is Recommended**  
**in the**  
**treatment**  
**of Haemorrhoids**



Recommend Anusol and you give medically sound advice.

The decongestive, protective and lubricating action of Anusol

Haemorrhoidal Suppositories, for instance, make them practically

an automatic prescription for the palliative treatment of haemorrhoidal conditions.

Similarly, in the treatment of external haemorrhoids, the safe and effective palliative

invariably recommended by doctors is Anusol Haemorrhoidal Ointment.

This can also be used in perineal conditions such as pruritus ani and perineal eczema.

Should you find that your stocks of Anusol are low, we shall be pleased to supply

you immediately. Anusol is not a preparation the diligent chemist can afford to be without.

Anusol Haemorrhoidal Suppositories are obtainable in boxes at 4/3; list price per dozen 32/6.

For dispensing, packages of 100, tax free when used on prescription priced at 16/8 each.

Anusol Ointment is supplied to chemists in tubes of 1 oz. at 4/3; list price per dozen 32/3.

# ANUSOL

*No Warner preparation has ever been advertised to the public.*

*of wide range of*

**pharmaceutical preparations**

*includes*

**TABLETS**

**PILLS · PASTILLES**

Creams · Ointments

Emulsions

Suspensions

Solution Tablets

Suppositories

*manufactured by*

**COX**

*"CHEMISTS OWN BRAND" packaging service*

ARTHUR H COX & CO LTD BRIGHTON

## ‘NEOLIN’

### —PRICE REDUCTIONS—

Eli Lilly & Co. Limited announce the following price change of ‘Neolin’ Oral Suspension as from Monday 14th June, 1954.

As from that date the net trade price of ‘Neolin’ will be reduced from 15/- per 60 cc. bottle to 12/- per 60 cc. bottle.

Claims from Retail Pharmacists for rebate on any stock held at the close of business on Saturday 12th June, 1954, should quote the batch number which appears on the label and should be made direct to Eli Lilly & Co. Ltd., Basingstoke before Monday 21st June, 1954.

*Lilly*  
TRADE MARK

ELI LILLY & COMPANY LIMITED · BASINGSTOKE · HANTS

**NOW!**



*Petal Soft*

# Modess **Masslinn**

The greatest advance in sanitary protection  
is here to make sales for you!

**NEW WONDER FABRIC** Modess MASSLINN are covered with a luxurious, "petal soft" material of rayon and cotton. Every bit as strong as ordinary materials yet so much softer and kinder.

**Modess MASSLINN** are featherlight in wear with specially flattened ends to ensure invisibility under the sheerest gown. They have additional protection to prevent clothes being soiled, and for complete reliability the loops are stitched to the towels.

**COTTON WOOL COMFORT — SOLUBLE PRICE** New Modess MASSLINN bring your customers just that! Never before in the development of sanitary towels has there been such a step forward.

**BIG ADVERTISING AND DISPLAY SUPPORT** In newspaper spaces and in full page, full colour magazine advertisements, millions of women will read about Modess MASSLINN. In addition, many unique full colour sales aids will bring customers into your shop to buy these new wonder towels.

*Johnson & Johnson (GT. BRITAIN) LTD., Personal Products Division, WREXHAM & LONDON*

*The Complete Service*

USE GOOD BOTTLES AND ENSURE  
EXTREME ACCURACY OF CAPACITY

WASHED AND  
STERILIZED  
READY FOR USE



AVAILABLE  
FROM STOCK

UGB

FITTED  
KORKALITE MOULDED  
OR ALUMINIUM CAPS

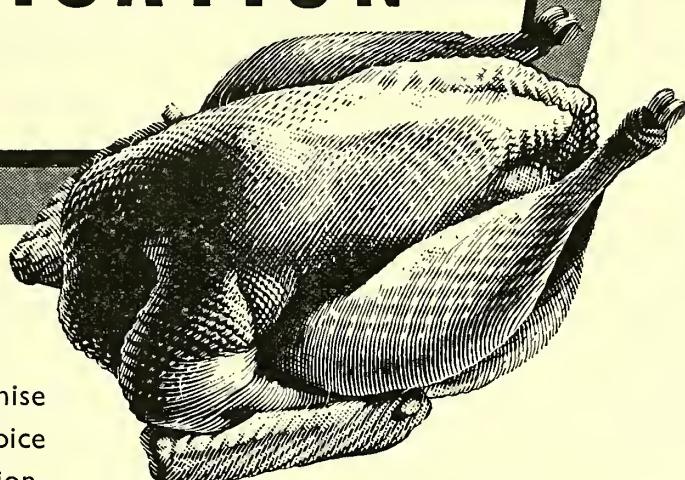


CORKMOUTH

UNITED GLASS BOTTLE MANUFACTURERS LTD

8, LEICESTER STREET, W.C.2 • Telephone: GERRARD 8611 (18 Lines) Telegrams: UNGLABOMAN, LESQUARE, LONDON

# a step forward in CAPONISATION



Poultry-keepers wishing to caponise cockerels have hitherto had choice of three methods: surgical castration, implantation of hexoestrol or implantation of stilboestrol. Of these, the first is difficult and dangerous. The others, safe and simple though they are, have not proved ideal in practice; for, while hexoestrol gives the heavier birds and the more pronounced "feminisation", stilboestrol gives the finer flesh.

Now comes a new caponising pellet—a pellet that combines hexoestrol and stilboestrol (7.5 mgm. of each), so giving the advantages of both. Issued only after convincing trials, this new poultry-implant, marketed as 'Combestrol', has been found to stimulate as rapid gains in weight and to feminise male birds as fully as hexoestrol implanted by itself, yet at the same time to tenderise their flesh as amply as stilboestrol used alone.

Poultry-keepers will want to try 'Combestrol'. When they see results, they never will go back to older caponising methods. Packs and retail prices of 'Combestrol' are: tubes of 25, 3/6; bottles of 100, 10/6; bottles of 1000, 96/-. Order stocks NOW.

## 'COMBESTROL'

Hexoestrol and Stilboestrol (Veterinary) for Implantation



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

# 28,000,000\*....

*that's the readership  
of newspapers and  
magazines booked for  
the great new  
**SPARKLET** campaign*

*Put the "sparkle"  
into good living*

Zip up your whisky . . . pep up those long summer drinks with a Sparklet! The Sparklet Refillable Syphon gives you an unfailing supply of fresh 'soda' water for all occasions and cuts out the fuss of deposits and returns. Just fill the Syphon with water, screw on a Sparklet Bulb, and at a twist of the wrist up comes zesty 'soda' eager to make all drinks 'bubbly' refreshing. A Sparklet Refillable Syphon is a smart and impressive Master of Ceremonies always at hand to dispense refreshment for the family. What's more, it offers a lifetime's service. Not in the long run, but very soon, it pays for itself.

**SPARKLET**  
*Refillable* **SYPHON**  
STANDARD MODEL 45s. STREAMLINE MODELS 7s/9s & 8s.  
From leading chemists and stores. Write for fully illustrated leaflet to  
DEPT X. SPARKLETS LTD., QUEEN STREET, TOTTENHAM, N.17.

This eye-catching advertisement, prominently featured in selected newspapers and magazines will be seen by millions of readers throughout the country. Constant repetition during the Summer and Autumn will drive home the SPARKLET message wherever there's a likely prospect. So stock up NOW to meet the demand for Standard and Streamline SPARKLET Siphons. And remember, each Syphon sold means assured profits from repeat orders for Sparklet Bulbs.

\* **SPARKLET** advertising will appear in :

Daily Express	10,160,000
Daily Mail	4,820,000
News Chronicle	3,030,000
The Times	440,000
Financial Times	60,500
Observer	1,260,000
Sunday Times	1,060,000
Country Life	500,000
Field	502,000
Punch	980,000
Men Only	880,000
Readers' Digest	4,520,000

READERSHIP COMBINED : 28,212,500

*STOCK UP WITH* **SPARKLET**  
*Refillable* **SYPHONS**  
**& BULBS**

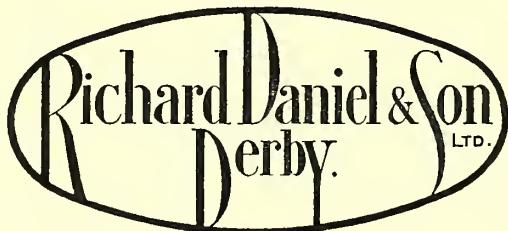
DISPLAY MATERIAL AND LEAFLETS ON REQUEST FROM: **SPARKLETS LTD.** QUEEN STREET, TOTTENHAM, N.17

# PENICILLIN PREPARATIONS

- LOZENGES
- TABLETS
- OINTMENTS
- AIDS TO DISPENSING OUTFITS for CREAM and DROPS

*Price List on application*

MANUFACTURED BY



**MANSFIELD ROAD, DERBY**

And at GROSVENOR ST., ASHTON-U-LYNE

Tel.: 48266 (4 lines)

Tel.: 2816 (3 lines)

## PRICE AGREEMENT REACHED for RYBARVIN & RYBAREX INHALANTS

FOLLOWING the recommendations of the Cohen Committee that freedom to prescribe for N.H.S. purposes shall be dependent upon price agreement with the Ministry of Health, we wish to announce that price agreement has been reached and that from July 1st, 1954 the prices of RYBARVIN and RYBAREX will be

**R E D U C E D**

*(prices to be announced later)*

Adjustment will be made for stocks held at 1st July

TANKERTON

KENT

**RYBAR**  
LABORATORIES LTD.

# BRITISH ALKALOIDS LIMITED

(Manufacturers of T.C.P.)

## MR. E. OSWALD TOFT'S STATEMENT

The twenty-fifth annual general meeting of British Alkaloids Ltd. was held on Wednesday the 9th June, at Winchester House, Old Broad Street, London, E.C.2, Mr. E. Oswald Toft, F.C.A., F.Inst.D. (the chairman) presiding.

The following is the Chairman's statement, which was circulated with the annual report and accounts for the year ended 31st March, 1954.

As in the past, I would direct your attention firstly to the Profit and Loss Account for the year to 31st March, 1954, and to the comparative figures for 1953.

It will be observed that there is a small decrease of £3,784 Gross Profit on trading compared with that for the year to 31st March, 1953, principally due to increased costs. It will also be noted that there is a small increase of £730 in the balance of Advertising Expenditure written off, compared with last year, which still leaves the intangible but valuable asset derived from this expenditure and that of past years, as nil on the Balance Sheet—a prudent policy consistently adopted for many years.

The charge for Taxation £28,500 in the Profit and Loss Account is based on the profit made in the year, and the rate of charge for Profits Tax is still heavily weighted by the amounts paid and proposed to be paid by way of dividend. Total provisions for Taxation this year represent 58.8 per cent. of our profit for the year, after charging all expenses and Advertising Expenditure, but before deducting the amount of £28,500 appropriated for Taxation. Last year the corresponding percentage was also 58.8 per cent. Despite this ever present burden, we have transferred £5,000 to General Reserve to maintain an adequate excess of current assets over current liabilities, to help finance the high replacement cost of fixed assets, and to permit normal expansion without recourse to the raising of additional capital. After all appropriations have been taken into account, including Interim Dividend already paid, there is a balance standing to the credit of this year's Profit and Loss Appropriation Account of £17,905 available for the payment of a Final Dividend, which your Board now recommend should be 2.1 pence per share, less Income Tax, on the Issued Share Capital of the Company. This Final Dividend will require £8,759, which figure is debited in the Profit and Loss Account, and if approved, warrants will be posted to Shareholders on the 9th June, 1954. It will be noted that the credit balance on the Profit and Loss Account then becomes £9,146 compared with the balance to the credit of Profit and Loss Account brought in from last year of £8,534.

## BALANCE SHEET

Now as regards the more significant items in the Balance Sheet.

It will be noted that compared with last year, there is a small decrease in stocks of £5,476 and in so far as this decrease relates to stocks of raw materials, the availability of supplies is such that in most cases your Board finds it unnecessary to carry stocks in excess of current manufacturing requirements. Current Assets standing at £178,943 exceed Current Liabilities and Provisions by the substantial sum of £125,685 after making provision for the proposed Final Dividend.

## GENERAL TRADING

Concerning our general trading activities, it is pleasing to report a small increase in our Export Trade during the year compared with that of last year, and every effort is still being made to increase this business. Unfortunately, import restrictions in various countries, particularly as regards the imports of medicinal products, create many difficulties, but the problems connected with these restrictions are under constant review.

During the year our Home Trade has also shown a small expansion, particularly as regards our principal product, namely, T.C.P. Antiseptic. We have considerable evidence to show that personal recommendation by users of T.C.P. continues to be a potent factor in creating sales, and these recommendations are often supported by the Retail Pharmacist. I would again record my appreciation to all, who, knowing the merits of T.C.P., have felt the urge to recommend.

## "WHEN YOU HAVE TO BE HOME DOCTOR"

Incidentally, I have remarked before that we consider T.C.P. to provide a much needed and very welcome adjunct in the home, where it can be particularly valuable for first aid and preventive treatment. In this connection we have published, quite recently, a very useful booklet entitled "When you have to be Home Doctor," and I shall be very pleased to forward Shareholders this publication if they would care to write to the Company for a copy. This booklet describes many ailments, etc. for the relief of which T.C.P. is of great benefit, and possibly in some cases even Shareholders will be surprised at the efficacy of T.C.P.

## T.C.P. ANTISEPTIC SHAVING CREAM

Also, I would remind Shareholders that we have other preparations as well as T.C.P. Antiseptic, which may not be so well known, but which fulfil their destined purpose equally well. For example, our T.C.P. Shaving Cream should make a delightful appeal to those Shareholders who have to cope with the morning shave. We are particularly proud of this product, so much so that we shall be very pleased to forward samples to Shareholders who would care to apply, as we are quite convinced that they will continue to use this Shaving Cream after they have experienced its good qualities.

I am pleased to inform you that since the 31st March, 1954, our turnover shows some expansion compared with the corresponding period of last year, which is an encouraging sign for the coming year.

In conclusion, I am sure Shareholders will wish to record with me their thanks, once again, to the Company's Staff, both office and factory, and to our Marketing Organisation, for the results shown and for their endeavours in the interests of all concerned.

The report and accounts were unanimously adopted, and a final dividend of 2.1 pence per share, less tax, making 3.6 pence per share, less income tax, for the year, was passed.

The retiring director (Mr. R. G. Munson) was re-elected and the remuneration of the auditors (Messrs. Oakley, Wederell & Co.), having been fixed, the proceedings terminated with a cordial vote of thanks to the chairman, directors, and staff.



## hard-selling advertising for Snowfire Wave Set

Attractive advertisements in popular newspapers and magazines strike an entirely new and refreshing note in wave set advertising. Thousands of women will remember them!

# new attractive pack



Bright new coloured leaflet  
"Snowfire Wave Set will do this  
for you" included in 1/4 packs.

**Don't be caught with your stocks down!**

# Take a regular profit with these popular



**CLACK**

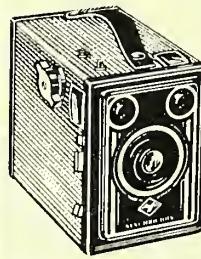
An excellent snapshot camera which gives just that much better results, at a price everyone can afford. Moulded in smart black plastic Special Robusit scratch-proof covering. Two apertures. Built-in portrait lens. Shutter for instantaneous and time exposures. Cable release socket. Synchronised for flash. Eight  $2\frac{1}{4}'' \times 3\frac{1}{4}''$  exposures on 120 (B2) film. £3.16.2

Plastic Ever-ready case 18/5

**BILLY I**

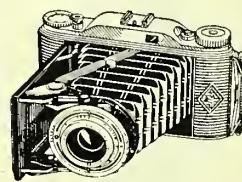
Here's a superb, moderately-priced folding camera of precision all-metal construction. F6.3/105 mm. Agfa Agnar lens. Vario 3-speed shutter: 1/25th to 1/200th and B. Handy shutter release on baseboard. Synchronised for flash. Eight  $2\frac{1}{4}'' \times 3\frac{1}{4}''$  exposures on 120 (B2) film. £10.14.6

Leather Ever-ready case £1.14.4



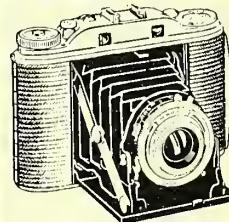
**Synchro-Box**

Two apertures and built-in yellow filter. Shutter for instantaneous and time exposures. Cable release socket. Synchronised for flash. Eight  $2\frac{1}{4}'' \times 3\frac{1}{4}''$  exposures on 120 (B2) film. £2.9.0.



**Record I**

F4.5/105 mm. Agfa Agnar lens. Pronto 4-speed shutter: 1/25th to 1/200th and B. Delayed action. Body release. Depth of field calculator. Synchronised for flash. Eight  $2\frac{1}{4}'' \times 3\frac{1}{4}''$  exposures on 120 (B2) film. £18.13.0. Leather Ever-ready case £2.8.6.



*The magnificent ISOLETTE range*  
**Isolette I**

F4.5/85 mm. Agfa Agnar lens. Vario 3-speed shutter: 1/25th to 1/200th and B. Synchronised. Twelve  $2\frac{1}{4}'' \times 2\frac{1}{4}''$  exposures on 120 (B2) film. £12.10.4.

**Isolette II**

F4.5/85 mm. Agfa Agnar lens. With Vario shutter, £15.5.0; with Pronto shutter, £17.10.0; with Agfa Apotar lens and Pronto-S shutter, £20.18.3.

**Isolette III**

F4.5/85 mm. Agfa Apotar lens. Built-in uncoupled rangefinder. Pronto 4-speed shutter: 1/25th to 1/200th and B. Synchronised £22.10.2. Plastic Ever-ready case £1.7.2. Leather Ever-ready case £2.8.6.



**Silette 35 mm.**

Prontor-SVS 8-speed fully X and M synchronised shutter. Positive click stops on all aperture settings. F3.5/45 mm. Agfa Apotar lens. Rapid lever wind transports film and sets shutter. £22.10.2. Model No. 2070/39. With Pronto 4-speed shutter: 1/25th to 1/200th. £18.8.4. Leather Ever-ready case £3.2.2.

For full details of all Agfa cameras, accessories and photographic materials, write to:

**For the second time this year**

**'DIBENCIL'** *Oral Suspension*  
TRADE MARK

**is reduced in price**

Every week, more 'Dibencil' is being prescribed, and the economies effected by larger-scale production have allowed us to reduce its price for the second time in less than six months.

'Dibencil' (benzathine penicillin) Oral Suspension gives reliable absorption and effective blood levels, and is stable for two years at normal room temperatures.

'Dibencil' bottles of 50 c.c.

SEPT. 1953

**16'8d**

Trade Price

JAN. 1954

**12'6d**

Trade Price

FROM JUNE 14  
1954

**10'4d**

Trade Price



IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED

*A subsidiary company of Imperial Chemical Industries Limited*

WILMSLOW, MANCHESTER

*It's selling like hot cakes!*

# DIS·PEL

**THE PROVED NEUTRALIZER FOR ALL HOUSEHOLD SMELLS**

Since the Aspro group acquired the Dis·pel business, Dis·pel sales have boomed and are still booming. Dis·pel is a first-rate product. It is now attractively presented and most vigorously advertised, and it offers your customers unchallengeable value for money. Chemists everywhere are making quick, easy profits from booming Dis·pel sales. Don't miss this easy money! Order your stocks of Dis·pel now!

**The best seller of all is the  
'DOUBLE DIS·PEL'**

**Price 3/6**

*Containing*

1. *The Dis·pel full-size dispeller (sold separately for 2/-)*
2. *The Dis·pel full-size refill (sold separately for 1/6)*
3. *The Dis·pel FREE wall-bracket (not sold separately)*

# DIS·PEL

can make money for YOU!

*Order your DIS·PEL stocks from*

**ADVANCE INDUSTRIES LIMITED, 116 BUCKINGHAM AVENUE, SLOUGH, BUCKS.**  
(A subsidiary of Nicholas Products Laboratories Ltd.) • MEMBERS OF THE ASPRO LTD. GROUP OF COMPANIES



<b>DIS·PEL IS EFFECTIVE</b>
<b>DIS·PEL IS CONVENIENT</b>
<b>DIS·PEL IS ECONOMICAL</b>

ESTABLISHED 1866



LONDON

*for*

**PILLS  
TABLETS  
CAPSULES**

PESSARIES · SUPPOSITORIES · SOLUTION TABLETS

PENICILLIN PRODUCTS · OINTMENTS FOR THE EYE

SOFT GLYCERIN LOZENGES · PACKED PHARMACEUTICALS

**STERILE PRODUCTS**

Own materials processed · Special Formulae prepared

Home and Export enquiries invited

*Price List forwarded on application to:-*

**H. & T. KIRBY & Co. Ltd.**

Manufacturing Chemists, WILLESDEN GREEN, LONDON, N.W.2



WHEN YOU ORDER TRU-GEL, you don't need to consider how many of this size and how many of that; nor whether to take a preponderance of jars, or bottles, or tubes. With *Tru-gel* there is only one size, one pack, one price. Men are already enthusiastic about *Tru-gel*. Enthusiastic be-

cause their hair doesn't now soil pillows, or chair backs nor stain hat-bands. Enthusiastic because they need to use so little for each dressing that *Tru-gel* is economical — even though they pay

2/9 for a comparatively small tube. You can be sure of giving your customers satisfaction when you supply *Tru-gel*.

**Tru-gel**

the new crystal-clear  
men's hair dressing

by

**E. GRIFFITHS HUGHES LTD · MANCHESTER**

# Essential Oils



Stills at Long Melford

English Distilled & Imported  
**EUCALYPTUS • SANDALWOOD • LAVENDER • LEMON  
 NUTMEG • CLOVE • CARDAMOM • ORRIS  
 PEPPERMINT • ANISEED • CINNAMON • GINGER**

*Send for our new Catalogue*

**StaffordAllenS**



*in this new counter display*

**Bonus Offer!**

Until the end of June only—there's a generous introductory offer to direct buyers on every 2-dozen order, in return for 14 days display! If our salesman hasn't yet called write now for details.

**Backed by powerful PRESS and RADIO advertising**

From now on regular advertising will star the new Stablon single Sachets in the leading big circulation newspapers, and the popular women's magazines. This new Sachet will be featured, too, in the popular "Top 20" Radio Luxembourg programme every Sunday night right through the summer. This programme has 1½ - 2 million women listeners.

Link up with this powerful advertising—display this beautiful new line on your counter!

**a big summer selling campaign**

introduces

*<this new single sachet*

Here is the ever-popular Stablon liquid shampoo in a new form for quickest-ever sales over your counter. In clean, eye-catching colours, these new sachets are packed in this attractive Display Outer supplied with every 2-dozen order.



**STA-BLOND liquid SHAMPOO**

Sole selling agents

SCOTT & BOWNE LIMITED, 50 UPPER BROOK STREET, LONDON W.I.

a place  
in the  
Sun..

with

# 'ANTHICAL'

trade mark brand

LOTION

brand

For prompt, soothing and cooling relief in sunburn, insect bites and pruritus associated with a variety of conditions in adults and children, your customers will welcome 'Anthical'.

'Anthical' is not just another cosmetic covering for irritating and often unsightly skin conditions. It is more than that. It contains mepyramine maleate — quick acting antihistaminic and analgesic affording hours of relief from pain and itching; and zinc oxide — widely used for its non-toxic sedative and astringent properties.

'Anthical' is an elegant and stable suspension. Its smooth creamy consistency and natural flesh-tinted colour, plus its pleasant odour and non-staining properties will immediately commend it to all users.

**SUPPLIES: BOTTLES OF 4 FL. OZ.**

AN M&B BRAND MEDICAL PRODUCT

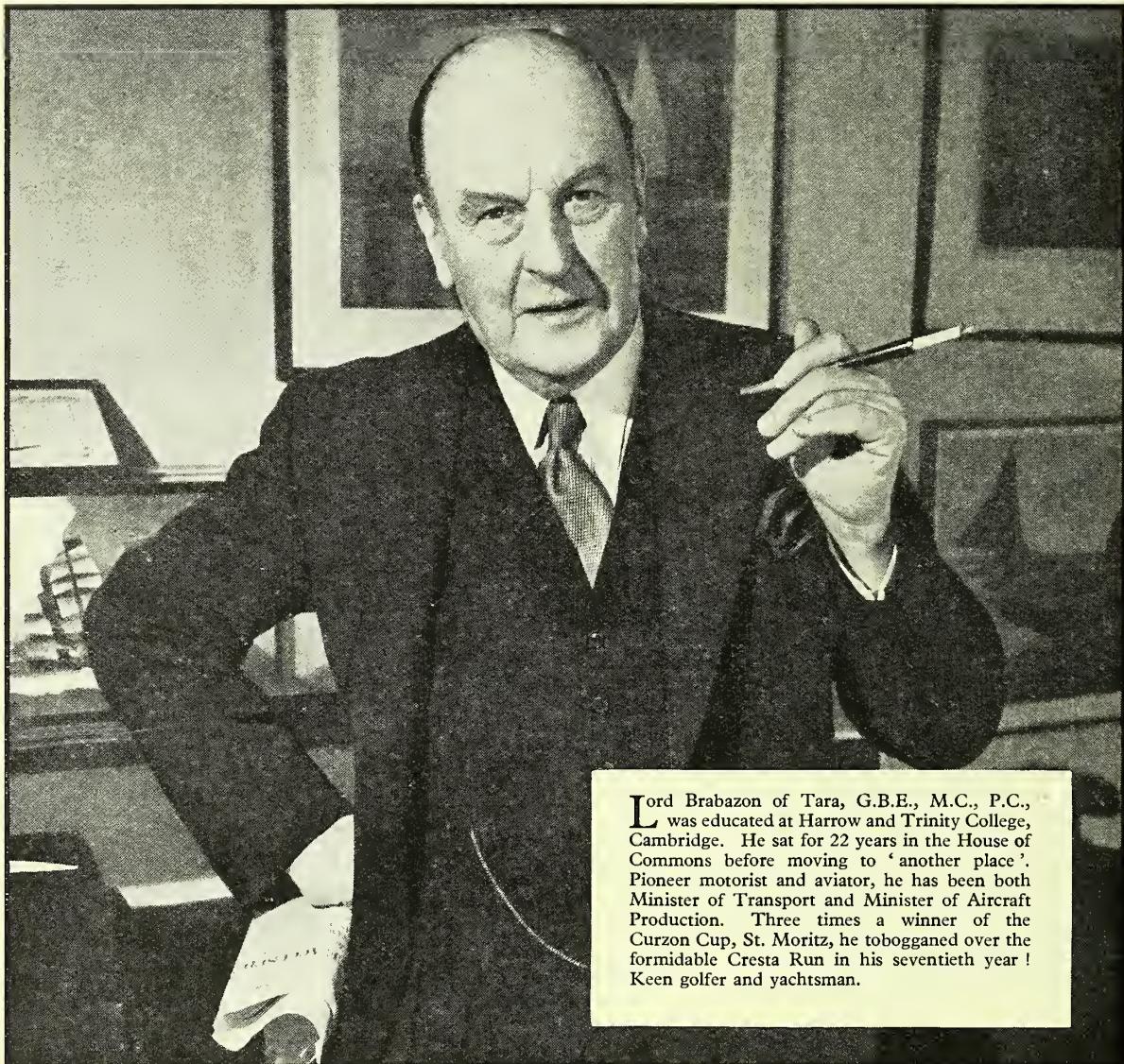


MANUFACTURED BY  
**MAY & BAKER LTD**

MA 2108

**DISTRIBUTORS: PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD · DAGENHAM**

E



Lord Brabazon of Tara, G.B.E., M.C., P.C., was educated at Harrow and Trinity College, Cambridge. He sat for 22 years in the House of Commons before moving to 'another place'. Pioneer motorist and aviator, he has been both Minister of Transport and Minister of Aircraft Production. Three times a winner of the Curzon Cup, St. Moritz, he tobogganed over the formidable Cresta Run in his seventieth year! Keen golfer and yachtsman.

## "My Daily Mail"

"I WELL REMEMBER the first issue of the Daily Mail. My Father showed it to us with all the pride of someone entirely responsible for its production. It cost a halfpenny. The opinion of the family was that it would go far. We were right.

My views are a little prejudiced by virtue of the fact that in 1909 I won £1,000 from the Daily Mail for flying a circular mile on an all-English aeroplane.

However, what do I think of it today? Very highly. It has lost none of its pristine vigour. It still pioneers. Notice the leading article on the left column of the front page. How many other papers would like to copy that? And what leading articles! Either you want to burn the paper, so that no one else should

by **LORD BRABAZON**

read it, or you are inclined to shout with joy; all depending on your political feelings. Good stuff.

Of special features, I look forward to Don Iddon. He is the only man in the world of whom the Columnists of America are afraid. He loves America, but won't have us bullied. Parliament should vote him a million pounds as a gesture for what he has done towards Anglo-American relations.

There is not too much telegraphese: the headlines, unlike some papers', are understandable. Two adventure strips are enough, as they are both good.

If I have any criticism of my favourite paper, it is that it is about time Kirby married Honey. Poor girl."



“dor”

# only deodorant cream selling at 9<sup>d</sup> will attract the untouched mass market

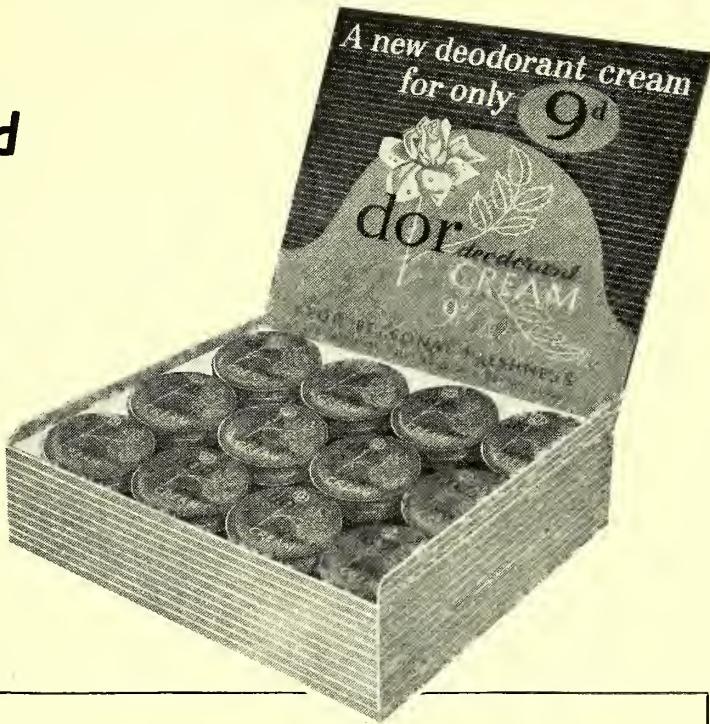
The attractive lilac container gives at least  
one month's supply — for only 9d !

*and it will be  
heavily advertised*

“dor” is being launched in the biggest-ever press campaign for a deodorant! Big spaces in the huge circulation Daily Express, Daily Mirror, Sunday Pictorial, Woman, Woman's Weekly, Woman's Own, etc., will give news of “dor” to women in every part of the country. Women who have never used a deodorant before—as well as those who have up to now used a more expensive one—will be asking you for this low-price, quality deodorant cream!

## Display “dor”

and reap the advantage of this biggest-ever deodorant campaign!



## BONUS for display

3 doz. charged as 2 $\frac{3}{4}$  doz. or  
multiples thereof.

If you have already placed your order with us, we thank you for your co-operation. If not, we invite you to write direct.

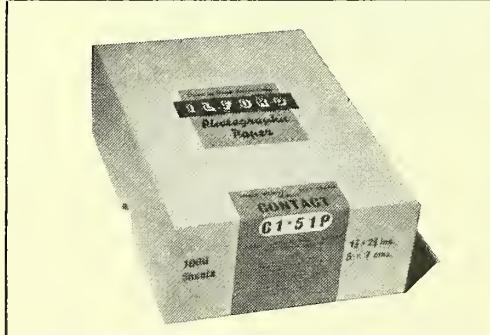
**F. W. HAMPSHIRE & Co., Ltd.**  
Manufacturing Chemists, Sunnydale, Derby.



**more faces —  
more places —  
more customers too!**

This year there are more of the familiar "FACES & PLACES" advertisements about than ever before. Everyone who reads a morning paper or uses any form of public transport can see a constantly changing selection of these attractive reminders about buying ILFORD films.

More "FACES & PLACES" advertisements mean more customers for you!



*yes!* AND MORE  
**ILFORD CONTACT PAPER**

*to get the brilliant best  
from everybody's negatives.*

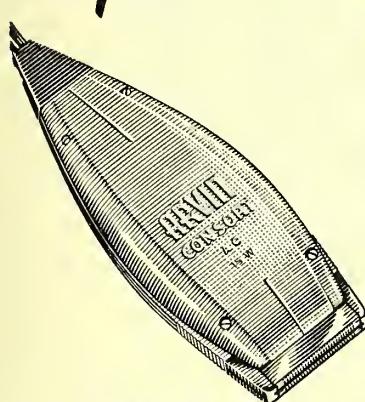
# ILFORD

ILFORD LIMITED · ILFORD · LONDON  
Trade Showroom: 106/107 High Holborn, London, W.C.1 · Telephone: HOLborn 3401

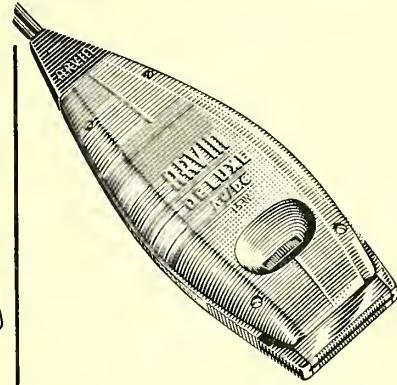
# Regular **ARVIN** advertisements in all these papers

• • • • • Radio Times   Daily Express   News of the World  
 • • • • • Daily Mail   Daily Telegraph   Sunday Dispatch  
 • • • • • Sunday Express   People   Reveille   Weekend Mail  
 • • • • • Eagle   Readers Digest   Boy's Own

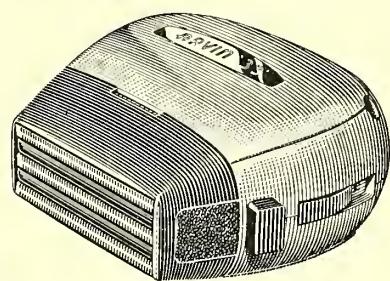
• • • • • *will stimulate demand and enquiries.* • • • • •  
 for these three **ARVIN** electric shavers



**ARVIN "CONSORT"** For A.C. mains only; with "Slim-Twin" cutting head; retails at 63/5. A best seller, this model, offering the finest value on the market.



**ARVIN "DE-LUXE"** For AC/DC mains; also with "Slim-Twin" precision cutting head; packed in smart, modern "Wind-a-Pak", a real eye-catcher in display. £4.11.5 retail.



**ARVIN "33"** The new, luxurious triple-headed shaver with rhomboid cutting shears — a unique advantage. Dual Voltage. Packed in handsome real Hide case. Retails at £8.19.9.

*So display the shavers and leaflets and keep them on display!*

# **ARVIN** ELECTRIC SHAVERS

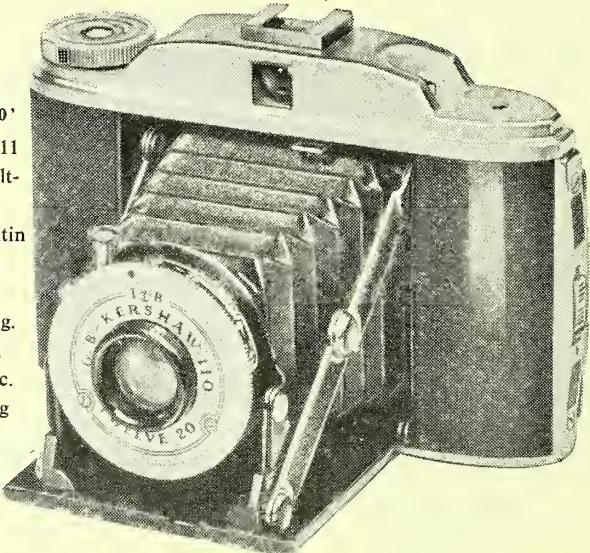
FOLLOWING THE ADVANCE EXPOSURE . . .

**NOW** a dramatic development  
THE **GB-KERSHAW '110'**

**CAMERA IS HERE!**

**G.B.-KERSHAW '110'**

Snapshot Camera f/11  
fixed focus lens. Built-in  
optical viewfinder.  
Leatherette covered, satin  
chromed pressed steel  
body. Self-erecting.  
Synchronised flash fitting.  
12 exposures 2½" x 2½" on  
No. 120 film. £5.19.10 (inc.  
P.T.). Ever Ready carrying  
case £1.3.0 (inc. P.T.).

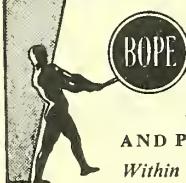


**BIG SELLERS—BIG VALUE  
BIG BUSINESS—For You!**

**BE SURE—WITH G.B.-KERSHAW**

*Write today for details*

*Distributed by G.B. Equipments Ltd., Photographic and Optical Division*



*A Member of the BRITISH OPTICAL  
AND PRECISION ENGINEERS' GROUP  
Within the J. Arthur Rank Organisation*

*Dept. CD/6/54, Mortimer House,  
37-41 Mortimer Street, London, W.1.  
MUSEum 5432*

# 'Tineafax'<sup>9</sup> BONUS OFFER

As a bonus, 13 to the dozen will be supplied on orders for three dozen or more 'Tineafax' products until July 31.

Parcels may be confined to the Ointment or the Powder, or be mixed, so long as unbroken dozens are ordered.

'Tineafax' brand Compound Undecylenate Ointment is the ideal treatment for "athlete's foot". Highly penetrative, strongly fungicidal and non-irritant, it clears the condition in most cases within 7-21 days. 'Tineafax' brand Powder dusted on to the feet prevents infection or re-infection.

# 'Tineafax'<sup>9</sup> PRODUCTS



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

# COW & GATE

# Baby Powder



Something new for Baby and something very comforting. The new Cow & Gate Baby Powder is a delicate and delightful preparation ideal for Baby's tender skin. Its cooling, soothing influence is just what Baby needs after the bath or during the heat of the day. It brings contentment, freedom from irritation — and encourages sound, refreshing sleep. Lightly perfumed, slightly borated, pure and refined.

## FOR COMFORT AND CONTENTMENT

*Display Stands and promotion material  
available upon application to :*

**COW & GATE LIMITED**  
GUILDFORD

5131

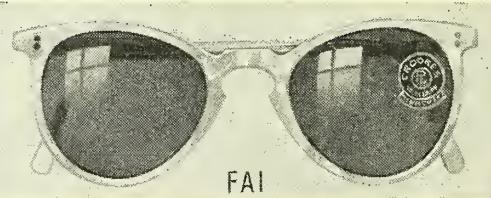


*BUYING*

# SUNGLASSES? BUY BRITISH

STOCK  
UP NOW!

MODEL DC/1. A pleasing quadra style, metal joints & R/E sides. RETAILS AT 6/-. Colours Transp. Flesh, Crystal-Ice Blue and Shell.



'THE FAIRVUE' Sunspectacle RETAILS AT 15/6d. Spectacle frame finish — Metal Joints and reinforced sides. Colours: Pearl Snowflakes, Autumn-leaf, Flesh, Transparents, etc.

Many NEW MODELS not illustrated above.

OPTICAL PRODUCTS LTD

370-372 STATION ROAD FOREST GATE  
LONDON E.7. Telephone MARlton 1764/65

ORDER FROM YOUR USUAL WHOLESALER

MADE IN GREAT BRITAIN

You can rely on "SUNRABAN" products

# An Immediate Success!



## ARTHIGON

The New  
DEEP - PENETRATION CREAM  
for the relief of RHEUMATIC PAINS

Though only just launched, repeat orders for ARTHIGON are already arriving.

And this during Summer! It is certain that by Autumn, ARTHIGON will be firmly established in the immensely wider market which colder temperatures will create.

You can promote sales of ARTHIGON with every confidence because ARTHIGON *really works*, quickly and positively. Make sure you have ample stocks to meet the insistent demand created by the big advertising campaign Maw's have undertaken.

★ Remember, ARTHIGON carries a profit of 50% to you, i.e. 21/- per 6-jar carton. Keep it well displayed on your counter and get your full share of this notable new business

S Maw Son and Sons Limited Barnet England



# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 161

June 12, 1954

No. 3877

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EDITORIAL AND PUBLISHING OFFICES  
28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Strand, London

Branch Offices:

BIRMINGHAM, 2: 111 New Street. Phone: Midland 2921	MANCHESTER: 344 Washway Road, SALE. Phone: Sale 4595
GLASGOW: 24 Dixon Road, S.2. Phone: Pollock 4802	LEEDS, 6: 32 Wynford Rise, West Park. Phone: Leeds 78438

ANNUAL SUBSCRIPTION, which includes The Chemist and Druggist Diary and Year Book, £2. Single copies one shilling each.



# NOW FOR THE FIRST TIME IN THIS COUNTRY MURINE

The World's largest-selling  
eye preparation

**The new, hygienic way to relieve tired eyes.**  
Developed by two eye specialists in the United States, Murine is an isotonic collyrium — its 7 scientifically tested ingredients are blended to match the natural eye fluids. Thus drops of Murine cleanse and soothe the eyes without shock, and actually complement the antiseptic lubricants of the eye itself.

#### Murine in the 'Public eye'

Starting this month — a strong publicity campaign for Murine in the national daily and Sunday press! Murine advertisements will be seen by millions of men and women of every age in every walk of life. Everyone gets tired eyes at times. From June onwards the public will be told again and again that the modern, hygienic way to relieve tired eyes is with Murine: 2 drops — relief in a wink.



#### STOCK UP WITH MURINE NOW!

Each bottle of Murine holds 240 drops and retails at 3/10 (complete with dropper in a sealed envelope). Order now from your usual wholesaler and have Murine on your counter before the advertising starts.

*Sole Distributors in the United Kingdom*

**A. J. WHITE, LIMITED**

COLDHARBOUR LANE · LONDON · S.E.5

The

# CHEMIST AND DRUGGIST



Volume 161

JUNE 12, 1954

No. 3877

## Drug Purchasing

### S.W. LONDON JOINT CONTRACT SCHEME

A MEETING of hospital pharmacists in the South-west Metropolitan hospital region (excluding the Western area), to discuss the official launching of a joint contracting scheme for drugs, was held in London on June 1.

The meeting, called by the South-west Metropolitan Hospital Pharmacists Committee, was attended by Messrs. D. A. J. Jackman (vice-chairman) and A. A. Hunt (deputy secretary) on behalf of the Regional Hospital Board. Mr. E. A. Cross (chairman of the committee) presiding, said that at the first meeting with the board's representatives he was impressed by the emphasis which they had placed on the necessity for professional control in any drug purchasing scheme. Not even the most pessimistic hospital pharmacist could desire a greater degree of control than had been achieved under the present arrangements. The scheme was the first of its kind to be inaugurated under the National Health Service. He referred to a pharmacists' purchasing scheme in the Birmingham area which was in operation before the appointed day, and paid tribute to the assistance received from the Birmingham Committee. Mr. JACKMAN said that the Regional Hospital Board had been impressed by the initial approach of the pharmacists' committee when it was established in 1949. He congratulated the pharmacists on the large number of hospital groups which had come into their scheme. He was recommending to the board that an initial grant should be placed at the disposal of the committee for their general activities. The secretary (Mr. W. S. Benjamin), presenting a report on behalf of the committee, announced that to date thirty-one hospital management committees and four boards of Governors of teaching hospitals were participating in the scheme. The committee had decided to advertise for tenders in the pharmaceutical Press, and of the fifty-two companies which had submitted quotations, twenty-five were being recommended as contractors. He said it was the duty of the pharmacist to obtain drugs of the proper quality at the most advantageous prices so as to avoid any unnecessary expenditure. That consideration had been in the mind of the Committee when making its recommendations, some of which had not been for the lowest prices offered. It would be the committee's policy to obtain "spot" samples from the hospitals of items

purchased under the scheme and to have them analysed. Some exceptionally favourable prices had been obtained and wherever possible hospitals would be able to choose from different sized packs. He suggested, however, that in view of the more advantageous rates for the larger packs they should be taken wherever possible and, if necessary, shared between hospitals requiring smaller amounts. He gave specimen figures of the economies possible under the scheme and said that the total saving should be substantial. Whilst the committee had made the necessary arrangements for the scheme only the pharmacists in the various hospitals (who had formed the committee) could ensure its ultimate success. The report was unanimously adopted.

### TRADE WITH CHINA

#### Chinese delegation to visit England

MR. PETER TENNANT (overseas director, Federation of British Industries), reported recently on his meetings in Geneva with Mr. Lei Yen-Min (vice-minister for foreign trade of the Chinese Government). Lists of British goods that the United Kingdom Government permits to be exported to China were submitted to Mr. Lei Yen-Min and a suggestion that Chinese representatives might visit Britain in the near future to discuss points of interest with British industry and with merchants the sale of the commodities offered by China has since been accepted. The Chinese have expressed particular interest in obtaining pharmaceutical and medical products, chemicals and scientific instruments.

### CHEMISTS FEDERATION Council meeting

A MEETING of the Chemists Federation council was held on June 3, the president (Mr. C. H. Jones) in the chair. Meetings of committees were held the previous day. The following additions to the C.F. list were approved: *Burroughs Wellcome & Co.*, Marzine; *Evans Medical Supplies, Ltd.*, Blue Cross baby powder; *International Laboratories, Ltd.*, Dalay tablets and Relaxa tablets. A report

was received from the assistant secretary upon propaganda work in the East Riding of Yorkshire. A report was also received of propaganda work by the outside representative of the Federation in Oldham and district and Rochdale and district. Arrangements are being made for C.F. meetings to be held in as many N.P.U. branch areas as possible during the autumn and winter and requests have been received for speakers at ten meetings, the dates for which have already been fixed. A further five meetings of chemists in Northern Ireland have been arranged. The following applications for wholesaler membership of the Federation were approved: Ralph Cuthbert (Wholesale), Ltd., 42 Byram Arcade, Huddersfield, Yorks; Harold Mitchell & Co., Ltd., 27 Corn Market, Belfast, Northern Ireland; Dobbin & Stewart, Ltd., 206 Ormeau Road, Belfast. The resignation of Heather Park Laboratories, Ltd., was accepted by the council and their product Glucozime deleted from the C.F. list.

### DRUGS FROM DOCTORS Revised list

THE list of drugs, reagents and appliances for the supply of which under the National Health Service doctors receive extra payment has been revised. The following additions are made:—Butobarbitone tablets, B.P.C.; erythromycin preparations; isoniazid, its derivatives, their salts; pentobarbitone sodium capsules; quinalbarbitone sodium capsules and tablets; and portable rubber urinals. The entries for the following drugs have been amended to include preparations of the drug:—Chloramphenicol; mercurial diuretics (now includes all preparations and not, as before, parenteral preparations only); PAS; phenylbutazone; and sulphonamides. The following are now restricted to certain preparations or forms of the drugs as shown in paren-



BIRDGROVE HOUSE VISIT: Representatives of Burroughs Wellcome & Co. photographed at the Pharmaceutical Society's convalescent home with the warden (Miss M. C. Jones). The excursion was made after a sales conference.

theses:—Cyclobarbitalone (tablets, B.P.C.); diphenan (tablets, B.P.C.); ergotamine tartrate (tablets, B.P. and injection, B.P.); ethisterone (tablets, B.P.); folic acid (tablets, B.P.C. and capsules); isoprenaline sulphate (tablets, B.P. and sprays); liver (parenteral preparations only); cyanocobalamin (parenteral preparations only); methyltestosterone (tablets, B.P.); and phenytoin sodium (capsules and tablets).

## ADHESIVE PLASTERS

### Duty drawback for exports

AN order published as S.I. 1954, No. 709, which came into operation on June 2, provides for the allowance of drawback of customs and excise duty paid in respect of hydrocarbon oils used in the manufacture of medical and surgical adhesive tapes and plasters. The drawback applies when the articles are exported or shipped as stores, and the rate for determining the quantity of oil is 2·54 gall. per 100 square yards.

## LOCAL NEWS

### Accidents in School Laboratories

FOLLOWING a recent accident in a school laboratory, the West Riding, Yorks, education committee have asked all West Riding science teachers to ensure that possible dangers in laboratory experiments are always anticipated in advance of practical work. It was admitted that, while science teachers usually took adequate precautions against the possibility of accidents, the diagrams and accounts of experiments in standard text books did not always make clear to pupils where danger existed. It was stressed that wherever any experiment was carried out in which acid was being heated under conditions which made possible a feedback from a cold solution should the heating cease, then a safety device must be included in the lead from the flask containing the acid.

### Linctus Warning

A CHEMIST on the pharmaceutical list of the Essex Executive Council has been warned to take every care in dispensing prescriptions because flies were found in a bottle of linctus. Giving evidence before the Pharmaceutical Services Committee of the Executive Council, he said that the linctus had been made in March 1953, and delivered to him in June 1953. At the time the linctus was dispensed the bottle was in a clean and fresh condition. His store house was brick-built, and had very few flies. As no trouble had been experienced with flies before, his dispenser had evidently been taken off guard.

### £5,000 Scholarship Fund

A FUND to the value of £5,000 for founding scholarships for the benefit of pupils at Whiteliffe Mount Grammar School, Cleckheaton, Yorks., has been inaugurated by Mr. F. Ellison, Birkenshaw, near Bradford (a director of Yorkshire Tar Distillers, Ltd., Cleckheaton) who has been associated with the chemical industry for over

fifty years. The scholarships will be tenable at universities and other further education centres in Great Britain and preference will be given to candidates wishing to pursue further study in chemistry and other sciences.

### Payment Claimed for Containers

A COMPANY of manufacturing chemists which for many years has supplied drugs and dressings for use in clinics under the education committee of the Lancashire County Council without charge for containers, has asked for payment for containers at present held in the school clinics or supplied in the future. The company said that their records showed that containers worth £728 had not been returned. The Council authorised payment of £311 for containers held in the clinics, and £180 to cover past breakages.

### Fire at Manchester University

A PHARMACY preparation room and three pharmaceutical chemistry research laboratories at Manchester University were damaged (the ceilings of two were destroyed) in a fire that broke out in rooms belonging to the medical school immediately above, in the early hours of May 14. Alternative accommodation in the department was made available to displaced research workers.

### A Raid that Failed

IN an attempted smash-and-grab raid on the premises of Harold Lomax, Ltd., chemists, Liverpool, recently, steel grilles that cover three-quarters of the window were climbed, a hole smashed in the unprotected upper part of the window and an attempt made unsuccessfully to extract cameras from the higher shelves. After a previous unsuccessful raid the window had been restored with reinforced glass.

## IRISH NEWS

### Ulster Chemists' Association

AT the monthly meeting of the executive committee of the Ulster Chemists' Association held in Belfast on June 1, Mr. H. G. Campbell (president) in the chair, on the motion of the president a vote of sympathy was passed to Mr. S. Bolton on the recent sudden death of his wife. A meeting of joint council was reported, at which points submitted by the Associates' Committee from an extraordinary meeting were discussed and a joint summary of evidence was drafted for re-submission to the Select Committee on Shops Legislation. A letter from the committee of the Associates' Section was received assuring the Section's full support to the executive committee regarding the 6.30 p.m. closing order. The following were elected to membership: Messrs. R. R. Harpur, 98 Duke Street, Londonderry (successor to S. E. Taylor, Ltd.); P. O'D. Fox, 544 Donegall Road, Belfast. A number of employees whose applications had been approved by the Associates' Committee were elected to Associateship. Consideration was given to the matter of welfare foods formerly distributed by the Ministry of Food and the following

subcommittee was appointed to keep watch on the situation: Messrs. H. G. Campbell, W. H. Boyd, H. S. Anderson, H. W. Gamble, W. S. Hall, W. R. McNabb. Among matters of trade interest discussed were Chemists Federation matters, rota service, and the sale of methylated spirits from vans. Amendments to the drug and veterinary sections for inclusion in the new issue of the Association's price list were approved. Miss A. E. Strachan (secretary) reported that as a result of the recent bowling tournament organised by Mr. J. Caldwell, a sum of £12 5s. 6d. had been handed to the Northern Ireland Chemists' Benevolent Fund. It was arranged that during the summer months the emergency committee would deal with any urgent business which might arise, and the next meeting of the committee would be held in September. The Association's office would close for two days only.

Present at the meeting were Miss C. E. Culbert, Messrs. H. S. Anderson, W. H. Boyd, J. Caldwell, H. W. Gamble, C. L. Gordon-Rattie, T. A. Gibson, W. S. Hall, W. H. Mulholland, M. C. Mooney, R. A. McEwen, J. McGregor, W. R. McNabb, J. Paul, P. R. W. Shinner, A. Templeton and Miss A. E. Strachan (secretary). Apologies for inability to attend were received from Messrs. J. C. Acheson, J. A. Brown, R. Gibson, O.B.E., W. J. Moffett, W. L. McDonnell, C. A. Quinn and W. J. Rankin (treasurer).

### Photographic Dealers' Association

A MEETING of photographic dealers in Northern Ireland, convened by the Photographic Dealers' Association, was held in Belfast on May 27 with the object of reviving the local branch of the Photographic Dealers' Association and of electing a new committee. Mr. P. R. W. Shinner (chairman) introduced Mr. Lyall G. Smith (a past-president of the Association and a council member for Ireland) who surveyed the Association's activities. The following were declared unanimously elected to the Committee: Messrs. H. G. Campbell, S. H. Forrest, W. S. Hall, A. H. Leitch, R. A. Mackintosh, A. H. McCagherty, J. A. McNeill, A. S. Pollock, J. Martin Poots, P. R. W. Shinner. At a committee meeting held on May 31 the following officers were elected: Chairman, Mr. A. H. Leitch; Vice-chairman, Mr. S. H. Forrest; Treasurer, Mr. A. H. McCagherty; Secretary, Mr. P. R. W. Shinner.

### Irish Drug Association

A REPORT issued by the Irish Drug Association lists forty products on which better margins of profit are now allowed though most of them have not been increased in selling price to the public. The extra profits to chemists, the report points out, more than pay the subscription of the average chemist to the I.D.A. "as well as consolidating the retailer's position with a strong organisation to protect his interests." New members elected to the I.D.A. were Mr. J. J. Coffey, M.P.S.I., 32 Wexford Street, Dublin, Miss M. Long, L.P.S.I., Charleville, co. Cork; Messrs. J. C. Power, L.P.S.I., Ardfinnan, Cahir, co. Tipperary, and G. P. Ryall, M.P.S.I., Portlaoise, co. Waterford.

## NEWS IN BRIEF

**Scottish Tribunal's New Chairman.** —Mr. I. H. Shearer, Q.C., has been appointed chairman of the Tribunal under Section 43 of the National Health Service (Scotland) Act, 1947, in place of Mr. William Grant, Q.C., who has resigned his appointment.

**Shop Wages Claim.** —The Union of Shop, Distributive and Allied Workers, with five other unions, is presenting to the Co-operative National Wages Board a claim for a 15 per cent. wage increase for about 230,000 distributive workers employed by co-operative societies.

**Atrophic Rhinitis.** —As a precaution against the spread of atrophic rhinitis in Britain the Minister of Agriculture and Fisheries has made two Orders (S.I.'s 1954, Nos. 721 and 722, effective from June 2) prohibiting the import of pigs, except for immediate slaughter, from the Channel Islands and Northern Ireland respectively.

### SPORT

**Golf.** —**ULSTER CHEMISTS' GOLFING ASSOCIATION**, McMullan cup competition held at Portstewart Golf Club on June 2. Cup was won by B. Flatley (5) who defeated W. Reville (18) in the match play final. Other prizewinners were as follows:—Best Gross, A. Hardy, Wholesale, 1, H. Mahood, 2, G. Smyth, Bogey, 1, R. A. Foye; 2, H. Caren.

**LIVERPOOL CHEMISTS' GOLFING SOCIETY**, on May 26, for Evans Medical cup won by A. N. Evans.

**CARDIFF BRANCH, PHARMACEUTICAL SOCIETY**, golf competition on May 26 for Evans Medical cup won by A. L. Davies.

### LOCAL OFFICERS

THE following have been elected or re-elected:—

#### PHARMACEUTICAL SOCIETY

**Derby Branch.** —*Chairman*, Mr. L. W. Adams; *Vice-chairman*, Mr. F. Wheatley; *Treasurer*, Mr. H. Prime; *Social secretary*, Mr. J. A. Dunlop; *Secretary*, Mr. K. Green, 28 Fairway Crescent, Allestree, Derby.

**Newcastle and Northumberland Branch.** —*Chairman*, Mr. G. H. M. Graham; *Vice-chairman*, Mr. C. B. Young; *Treasurer*, Mr. T. Sisterson; *Secretary*, Mr. A. McGuckin, 55 Grainger Street, Newcastle-on-Tyne, 1.

**Reading Branch.** —*Chairman*, Mr. E. E. Locker; *Vice-chairman*, Mr. G. G. Hammond; *Treasurer*, Mr. H. C. Pacey; *Secretary*, Mr. H. Williams, 105 Wokingham Road, Reading.

**Sheffield Branch.** —*Chairman*, Mr. S. Durham; *Vice-chairman*, Mr. O. Griffiths; *Treasurer*, Mr. C. A. Fox; *Secretary*, Mr. S. Durham, 42 Fossdale Road, Sheffield, 7.

#### PHARMACEUTICAL ASSOCIATIONS

**Enfield Chemists'.** —*President*, Mrs. D. M. Authors; *Vice-president*, Mr. A. G. A. Garrett; *Treasurer*, Mr. S. J. Windsor; *Secretary*, Mr. J. Soulsby, Chase Farm Hospital, Enfield, Middlesex.

**South-west London Association and Branch.** —*President*, Dr. G. R. Boyes; *Vice-presidents*, Messrs. A. T. Morgan and M. Lewis; *Treasurer*, Mr. W. E. Wragg; *Social Secretary*, Mr. A. T. Morgan; *Secretary*, Mr. H. R. Edgecombe, 77 Atlantic Road, London, S.W.9; *Assistant Secretary*, Mr. P. Dix, 40 Atherfold Road, London, S.W.9.

#### NATIONAL ASSOCIATION OF WOMEN PHARMACISTS

**Merseyside Branch.** —*President*, Miss E. M. Hirst; *Vice-president*, Miss B. H. Morris; *Registrar*, Mrs. D. H. Evans; *Treasurer*, Miss M. C. Dodd; *Secretary*, Mrs. E. N. J. Jones, 6 Ravenswood Avenue, Rock Ferry, Cheshire.

## TOPICAL REFLECTIONS

By Xrayser

### Franco-British Pharmaceutical Congress

Your report of the recent meeting of the Franco-British Pharmaceutical Congress (pp. 573-74) indicates that this annual event is firmly established after a life of four years. The topic selected for discussion at Dinard was the manufacture and sale of veterinary preparations in France and in Britain; the latter was expounded by Mr. F. W. Adams, and the former by Miss J. Varet, a French pharmacist. Conditions of veterinary trade in Britain being familiar on this side of the Channel, I may confine my comment to the other paper. Though, as readers of *Topical Reflections* saw a week ago, the manufacture and sale of medicines for human use is strictly controlled in France, the case of veterinary products is different. Excepting vaccines, serums and biological products (which may require the authorisation of the Ministry of Agriculture), anyone may manufacture veterinary goods and sell them to wholesalers. Again, anyone may retail articles of this class unless they contain poisonous substances; then, in the absence of a local pharmacist, a veterinary surgeon is authorised to sell. Manufacturers are mainly either proprietors of pharmaceutical laboratories with a veterinary department, or firms run by veterinary surgeons or by unqualified persons. The speaker suggested that pharmaceutical students should be instructed in dosage for animals and in the allergy of some kinds of animals for substances usually harmless to man.

### George Eastman

The announcement that, in commemoration of the hundredth anniversary of his birth, a postage stamp is being issued in the United States (p. 566) bearing a portrait of George Eastman is welcome. I have sometimes thought—and the idea is, I believe, widely shared—that Kodak is an excellent example of what a trade mark name should be. So far as I know, the use of a sensitised photographic film in a roll was first suggested by Spencer in 1857, and in 1884 Carbutt of Philadelphia made an emulsion-coated celluloid; but daylight-loading spools first appeared in 1891. The original Kodak, a roll-film camera, came on the market in 1888 with the slogan "You press the button and we do the rest." Among subsequent modifications were the introduction in 1913 of non-curling film, coated on both sides with gelatin, and in 1923 of cellulose-acetate safety film base. Improvements in increased and extended sensitivity have come from time to time. Competition in this field has of late been keen, and I make no attempt to survey the ground gained. Eastman's life is an outstanding instance of inventive talent combined with business acumen.

### The Registers

Recent legislation has substituted "The Register . . ." for "The Registers . . ." (p. 565) on the title-page of the official record of registered members of the Pharmaceutical Society of Great Britain. When I first began to attach importance to the contents of these annual volumes (published "by authority") each was priced at 5s. (by post 5s. 4d.). Now each is priced at £3 3s. When, during the 1914-18 war, the price was raised to £1 1s., we muttered "Profiteering": I have not yet found an appropriate name for the present charge. Some of the volumes were not free from misprints. During the 1914-18 war a well-known pharmacist, who afterwards became president of the Society, was alleged to have qualified in 1191 or some such year. (The volume is not in my set.) During the hearing of the Jenkin case in 1920, a moment came when a copy of the Registers seemed to be wanted on the judge's table. Sir William Glynn-Jones, who had come provided with one, ceremoniously unwrapped it and passed it to the clerk of the court. At another point Mr. Justice Peterson asked "Who may carry on the business of a chemist and druggist?" Senior and junior counsel on both sides were at a loss; but a prompting from a pharmacist present supplied the answer. Registers have their uses.

## LONDON PHARMACEUTICAL COMMITTEE

### 300 London contractors providing service till 7 p.m.

THE May meeting of the London Pharmaceutical Committee was held on May 18, Mr. F. H. Connelly in the chair. Considering the report of the hours of service subcommittee, the Committee noted that approximately fifty shops in the County of London remained open voluntarily until 8 p.m. or later, and agreed that such shops should not be asked to participate in official rotas. It was also agreed to recommend to the Executive Council that the pharmacies on the Coldharbour and Avery Hill housing estates, Woolwich, should be considered "one-man" rotas entitled to the appropriate payments. It was reported that 260 pharmacies remained open until 7 p.m. voluntarily so that on every week-night other than early closing day, more than 300 pharmacies provided a service until 7 p.m. The Committee was unable to agree to a contention of the medical officer for Hackney that the service at present available did not meet the reasonable requirements of the residents there. Ten pharmacies remained open until 7 p.m. or later, seven provided service on early closing days, eight provided Sunday and holiday service, and there were seven resident pharmacists available for the out-of-hours dispensing of "urgent" prescriptions. The Committee, in the absence of specific complaints, could not agree to amend the hours of service scheme in Hackney.

#### Incomplete Prescriptions

In connection with the question of incomplete Schedule IV and penicillin prescriptions THE SECRETARY (Mr. W. F. Wilkinson) stated that the Minister of Health appeared to be asking for more detail than was required by either the Pharmacy and Poisons or the Penicillin Acts. If the contractor was able to secure the additional information and endorsements required during the month in which the prescription was dispensed, he felt there was little the Committee could do to assist, but if many incomplete prescriptions were sent to the Pricing Bureau the matter would have to be considered further. The Committee noted with regret that the Minister appeared to be unable to trust contractors in the matter of endorsements. In a letter, the director of housing for the county said that the number of pharmacists wishing to start new businesses on housing estates was limited. The Committee's view was that the County Council appeared to consider that the rent of a pharmacy should be at least as high as that of a grocer. The reasons for the limited number of applicants were the high rent (compared with those of existing businesses in the market), the break clauses in the lease, and the system of tendering. The Committee was concerned as there was a danger that housing estates would be inadequately served pharmaceutically.

THE SECRETARY in his report stated that three nominees of the Committee to divisional health committees of the County Council had been appointed

for 1954-55 as follows:—Division No. 5 (Bethnal Green, Stepney, Poplar), Mr. H. Warburton; No. 7 (Camberwell, Lewisham), Mr. P. G. Flood; No. 9 (Battersea, Wandsworth), Mr. W. F. Wilkinson. Complaints had been received that the rate of payment on account did not cover ingredient costs, but many contractors tended to forget the shilling per form they had collected. The Committee believed that, whilst 70 per cent. was not unreasonable in present circumstances, any further reduction before pricing was up-to-date should be resisted. The Committee was seriously perturbed at the number of prepacked mixtures and loose tablets supplied from County Council maternity and child welfare clinics. Mixtures were issued in bottles labelled in Latin with no dose or directions. Tablets were issued in paper envelopes with no directions, dose or patient's name, and the patients had to take the preparations to neighbouring pharmacies to ascertain appropriate doses and directions.

#### Scheme for County Council Clinics

The Committee had before them the outline of a scheme for special prescriptions to be issued by doctors at County Council clinics. If such a scheme could be adopted there would be no need for drugs to be stocked at the clinics and the danger attached to their distribution by non-pharmaceutical staff would be overcome. The Committee decided to inform the County Council that in their view, whenever drugs and medicines were stored, handled, compounded or distributed to the public, such work should be under the control of a pharmacist.

## FINE CHEMICALS IN MEDICAL RESEARCH

### Lecture and demonstrations

THE Fine Chemicals Group of the Society of Chemical Industry held its final meeting of the 1953-54 season on April 30 at the National Institute for Medical Research, London. Members and their guests visited a number of laboratories of the Institute in which exhibits and demonstrations had been arranged.

In the large-scale laboratory, DR. T. S. WORK illustrated the use of low cross-linked polystyrene resins in the fractionation of peptide mixtures. DR. P. C. SPENSLEY illustrated by photographs and samples the steps in the isolation and purification of hecogenin from sisal for use in the production of cortisone. DR. R. K. CALLOW had a Perkin-Elmer double-beam recording infra-red spectrometer in operation and also demonstrated the Schiedt technique for determining the absorption spectra of 0·6-1·5 mgm. solid material by incorporation into potassium bromide pellets. DR. H. R. V. ARNSTEIN and MISS M. E. CLUBB showed the biosynthesis of penicillin from labelled amino acids and a radiochemical laboratory designed for the synthesis of compounds labelled with isotopes emitting only soft  $\beta$ -radiation. MESSRS.

## N.H.S. STATISTICS

In ENGLAND during July 1953, 15,039,946 prescriptions (8,846,158 forms) were dispensed at a total cost for ingredients, fees and containers of £3,181,660. The average total cost per prescription was 50·77d., the average dispensing fee was 12·37d. In August, 13,161,216 prescriptions (7,702,518 forms) were dispensed at a total cost for ingredients, fees and containers of £2,676,475. The average total cost per prescription was 48·81d., the average dispensing fee, 12·41d. In September 1953, 15,183,971 prescriptions (8,840,191 forms) were dispensed at a total cost for ingredients, fees and containers of £3,019,878. The average total cost per prescription was 46·48d.; the average dispensing fee was 12·46d. In October, 1953, 17,826,278 prescriptions (10,333,953 forms) were dispensed at a total cost for ingredients, fees and containers of £3,483,154. The average total cost per prescription was 46·89d.; the average dispensing fee was 12·58d.

In BIRKENHEAD during 1953-54, the total cost of the National Health Service was £453,735. The cost of the pharmaceutical services was £179,552.

In LIVERPOOL during 1953-54 the total cost of the National Health Service was £2,391,078, £469,085 less than in 1952-53. Pharmaceutical services, estimated at £1,050,000 cost £1,009,026. During April 1954, the total cost was £157,034 compared with £135,204 in April 1953. The cost of the pharmaceutical services was £114,517, compared with £99,578 in April 1953.

In MIDDLESEX from April-December, 1953, 8,145,364 prescriptions were dispensed, at a total cost for ingredients, fees and containers of £1,767,075. The average cost per prescription was 52·16d.

## Disease Organisms Shown

R. C. HOLLOWAY and P. R. PURSER and DR. A. S. MCFARLANE showed several techniques for isotope counting.

In the instrument laboratory the staff showed a variety of electronic devices, including a constant-current device for electrophoresis, a conductivity indicator, a photo-electric counter and an automatic liquid dispenser. In the instrument workshop instruments in current production were exhibited, including a special pantograph, a stereotaxic instrument for humans and a standard electronic chassis.

## Dr. J. D. FULTON

Dr. J. D. FULTON showed a number of organisms causing tropical diseases, which included the African trypanosomes; *Leishmania donovani*, the infective agent of Kala azar; *Entamoeba histolytica*, the cause of amoebic dysentery and *Leptospira icterohaemorrhagiae*, the organism causing Weil's disease. DR. R. BANGHAM showed a study of the mode of action and the metabolism of the antifilarial drug, diethylcarbamazine. DR. F. HAWKING showed the interrelationship of milk, malaria and *p*-aminobenzoic acid. It

had been found elsewhere that rats could be made insusceptible to infection by feeding them on a milk diet. Work at the Institute had shown that that insusceptibility was due to a deficiency of *p*-aminobenzoic acid, which was a growth factor for many species of malaria parasite. Baby rats and baby monkeys, fed at their mother's breast, were similarly insusceptible to malaria, but they became susceptible when given *p*-aminobenzoic acid.

International and British biological standards were shown by DR. W. L. M. PERRY and MR. L. WARD. An automatic assay apparatus for histamine was shown by MR. W. E. BROCKLEHURST, the assay of hyaluronidase by DR. H. H. R. REINERT and an antibiotic plate assay by MR. J. W. LIGHTFOOT.

DRS. A. T. JAMES and A. J. P. MARTIN demonstrated gas-liquid chromatography with a flowing gas and a stationary liquid phase and a new tech-

nique for determining the change in density of the effluent gas stream. Examples were shown of the separation of complex mixtures of hydrocarbons, alcohols, ethers, amines, etc., and their identification.

#### Chemistry and Therapy

At a meeting held later in the evening DR. R. K. CALLOW (National Institute for Medical Research) lectured on "Medical Research and Fine Chemicals." He traced the advance of therapeutic chemistry in recent years in the groups of (1) compounds with pharmacological action; (2) antimicrobial compounds; (3) vitamins and (4) hormones. The speaker emphasised the empirical nature of the advances and illustrated them in the first group with a short account of the history of synthetic laxatives, of morphine and tubocurarine and of substitutes for those alkaloids. Even in the antimicrobial

group, in spite of the picturesque theories of Ehrlich, development had depended on a mixture of chance observation, empiricism, incomplete hypothesis, accident and academic research. The discovery and investigation of the sulphonamides had resulted in a theory of their action, rather than the other way round. Increasing knowledge of cell chemistry was only now beginning to suggest a rational approach to chemotherapy. The discovery of triiodothyronine by workers at the National Institute was referred to. That the majority of human diseases were still incurable was a challenge to medical research and organic chemistry in co-operation.

In the discussion that followed DR. F. HARTLEY considered the biological evaluation of antirachitic substances and of ACTH and posed the question whether crude substances should be used as standards.

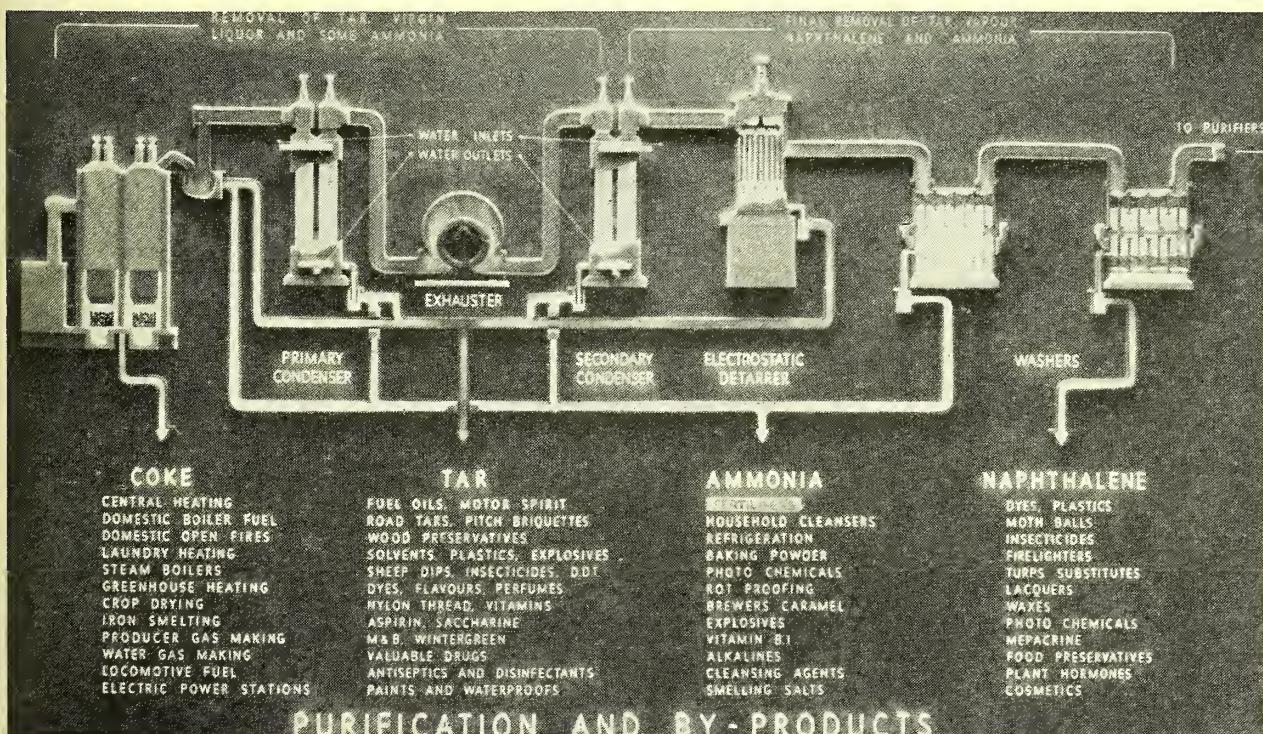
## COAL-GAS AND ITS BY-PRODUCTS

### A permanent exhibition at South Kensington

A PERMANENT exhibition devoted to the history of coal-gas manufacture, its distribution and by-products, was opened by the Lord President of the Council (the Marquess of Salisbury) at the Science Museum, South Kensington, London, S.W.7, on May 25. The display, which occupies a gallery of about 5,000 sq. ft. in a newly-finished wing of the Museum, is arranged in four forms, a cyclorama tracing the history of the industry, a series of dioramas showing the life of the people and their working conditions, a series of scale models of plant, and

eighteen animated and illuminated panels illustrating processes in gas manufacture and distribution. Two of the panels depict the purification of gas and removal of the by-products in the forms of coke, tar vapour, naphthalene, ammonia, sulphur and benzole. Under the name of each main by-product are listed its further derivatives. For instance, under the heading "tar" are listed sheep dips, insecticides, DDT, dyes, perfumes, vitamins, aspirin, saccharin, wintergreen, antiseptics and disinfectants, and "valuable drugs."

Vitamin B<sub>1</sub> is among the by-products listed under ammonia, as are photographic chemicals and smelling salts. Under naphthalene are listed, among other products, mepacrine, plant hormones and cosmetics, and sulphonamides, DDT and anaesthetics are included under benzole. In another illuminated panel the same processes are illustrated diagrammatically, and some of the by-products shown pictorially, and a further panel in the series depicting purification shows the removal of sulphuretted hydrogen using iron oxide.



CHEMICALS FROM COAL: One of the illuminated and animated panels in the coal-gas exhibition at the Science Museum at South Kensington, London, S.W.7, designed to illustrate the extraction of by-products and listing their uses in the manufacture of other products.

## LEGAL REPORTS

**Theft from Former Employers.**—At Bedford borough magistrates' court on May 18 and June 1, Joffre Haig Stewart, White Cottage, Stevington, Bedfordshire, was charged with stealing money and goods from his employers, Boots, Ltd., Silver Street, Bedford. Stewart was fined a total of £10. He had pleaded guilty to stealing £1 in cash and a telescope valued at £2 10s., but stated that he had merely borrowed and intended to return an electric storm lamp and battery valued at £1 12s. 6d. The bench allowed seven days for payment of the fine.

**Fined on Receiving Charge.**—At Wigan county court, on May 11, Louis Morris, F.P.S., Denmark Road, Moss Side, and Streiford Road, Manchester, was fined £75, and ordered to pay £6 10s. costs, for receiving 864 jars of malt and oil which had been stolen. The prosecution stated that a motor driver employed by Jeffreys, Miller & Co., Ltd., malt extract manufacturers, Wigan, stole the jars from his employers and sold them to Morris. Later the driver was fined for stealing the jars. Morris, pleading not guilty, said it was "a genuine buy" so far as he was concerned. He "would not have touched them with a barge pole" if he had known the jars had been stolen.

**Thefts of Blades Admitted.**—At Liverpool stipendiary magistrates' court, recently, two women who admitted stealing and receiving, respectively, razor blades and cosmetics belonging to Ayrton, Saunders & Co., Ltd., Liverpool, were each sentenced to three months' imprisonment. Another woman and a man were fined on receiving charges. The women given prison sentences were Miss E. E. Rose, a checker employed by the firm, and Mrs. E. Williams. They gave notice of appeal against sentence and were allowed bail. Rose pleaded guilty to three charges of stealing a total of 1,800 razor blades, twenty boxes of permanent wave lotion, twenty-four lipsticks and six pan-sticks, total value £40 3s. John Kerr and Mrs. H. Derbyshire pleaded guilty to charges of receiving and were fined £20 and £10 respectively.

**Thiourea in Oranges.**—At Dronfield, Derbyshire, magistrates' court, on May 24, a charge against a company of fruit importers of having sold oranges containing thiourea was dismissed. A plea of not guilty had been entered. The case was brought under the Food and Drugs Act on the ground that the oranges were not of the substance demanded by the purchaser in that they contained a preservative. For the prosecution it was stated that thiourea had been proposed for the prevention of mould in the fruit while being shipped. The oranges were apparently sprayed with it. Tests carried out in the United States revealed that it had a toxic effect on rats. Thiourea was capable of penetrating the peel of the orange and appearing in the fruit. The Derbyshire county analyst said the oranges contained 40 parts per million in the edible parts of the fruit. For the defence it was stated that the Spanish Govern-

ment was taking steps to prohibit the export of oranges sprayed with thiourea.

### Manufacturers Added as Defendants.

—In the Limerick circuit court, Eire, recently, an action arising out of the sale of a medicine for cattle was mentioned when an application was granted to add Imperial Chemical Industries (Export), Ltd., Dublin, and an associate firm, Imperial Chemical Pharmaceuticals, Ltd., as defendants. The application was made by senior counsel on behalf of Mr. Patrick Fitzgibbon, M.P.S.I., trading as M. B. Widdess, chemist, 55 Roches Street, Limerick, who was defendant in a claim for £305 for alleged breach of warranty brought by a farmer named John Bourke, Erinagh, Clonlara, co. Clare. The judge adjourned the matter to the next sittings and gave the plaintiff the costs of the motion. Mr. Kenny said the action arose out of the sale of a product called Minel by Mr. Fitzgibbon to Mr. Bourke. The preparation, which was sold as a cure for fluke in cattle, was purchased by Mr. Fitzgibbon in a sealed container from Messrs. Imperial Chemicals, Dublin, and his client had had nothing to do with its preparation. The action had been brought against Mr. Fitzgibbon only, and he proposed that the company from which he had purchased the product, and the company which had manufactured it, should be added as defendants, and that a third-party motion claiming indemnity against them should also be made. Counsel added that the solicitors for the two companies had consented to a third-party motion being issued against them, or to be added as defendants. Counsel for Mr. Bourke said it would be futile to add the companies as defendants, because he would not tender any evidence against them.

### Morphine Fraudulently Obtained.

A sentence of ten months' imprisonment on two counts of unlawful possession of morphine was imposed in the Dublin circuit criminal court recently on Francis P. Burrowes, of no occupation and no address, charged with obtaining twenty  $\frac{1}{4}$ -gr. morphine tablets from Mr. Francis Brennan, a chemist, in March 1953, with intent to defraud by presenting a forged doctor's prescription. Burrowes pleaded guilty but the judge said he was not satisfied that morphine tablets were a chattel, and that the accused could be properly charged with intent to defraud. A *nolle prosequi* was entered on that count. A detective-sergeant said that Burrowes was a native of co. Limerick, studied in co. Cork as a chemist, but so far as he could find out had never qualified. The sergeant read out a list of thirty-eight previous convictions against Burrowes in Ireland and England. A number involved obtaining morphine by false pretences and unlawful possession of morphine. His practice, stated the witness in evidence, was to obtain admission to a hospital on the pretence of having fractured ribs, and through a ruse to get a "shot" of morphine. In connection

with the present morphine charge he had been in Baggot Street Hospital, Dublin, where he had stolen notepaper on which he forged a prescription in the name of a visiting surgeon there. He presented the prescription to Mr. Brennan and obtained the morphine, at the same time telling the chemist that he was suffering from cancer. The detective added that Burrowes was a good talker and very convincing. Addressing the judge, Burrowes said it was not correct to say that he had not qualified as a chemist. He had qualified but had been struck off the register. He referred to De Quincy's "Confessions of an Opium-Eater" as indicating the sufferings of an addict and asked whether his case was one for punishment or treatment.

**Committed for Trial.**—The hearing of charges of manslaughter against Arthur Kendrick Ford (C. & D., May 22, p. 523) was continued on May 25, when a pharmacist employed by Sangers, Ltd., gave evidence that Ford had made an inquiry at his office about cantharidin. Mr. Richard Humphrey Lushington, M.P.S., said that, up to April 26, there were two bottles of cantharidin crystals, one opened and one unopened, in a cupboard in his office. Each bore a label with the word "Poison" in red letters. About 10 a.m. on April 26 Ford came to the office and asked if he had any cantharidin. Witness said he had and took one of the bottles out of the cupboard. Ford said he wanted it for breeding purposes for a neighbour who kept rabbits. Witness said to him: "Don't you realise it's a Schedule 1 poison?" Ford said: "If that's the case I don't want it," and later left the office. Subsequently Mr. Lushington found 39 grains of the drug missing from stock. Dr. Lewis Charles Nickolls (director of the Metropolitan Police laboratory) said that, from the amount of cantharidin recovered from each of the dead girls, he estimated they had each had not less than one or two grains. He also found traces of the drug on a pair of scissors taken from Ford's desk. The magistrate: "If the accused had disclosed the moment the girls complained of being ill what they were suffering from, would it have been possible to save their lives or had they taken such a dose of poison that they were beyond hope?"—"I don't think there was any hope for them once the material had started to show its poisonous effects." It was not possible to use any reasonable method of elimination of the poison. Dr. Nickolls said that cantharidin was a crystalline substance with a blistering action. It was colourless and tasteless and had a reputation as an aphrodisiac. Externally it was used in such things as hair lotion and blistering fluids. "It has been used internally and the maximum therapeutic dose has been suggested as gr. 1/200, but its use internally has been discontinued." Ford was committed for trial at the Central Criminal Court, London. Defending counsel said that Ford pleaded not guilty and reserved his defence.

## COMPANY NEWS

Previous year's figures in parentheses

ENERGEN FOODS, LTD.—A final dividend of 12½ per cent. making 20 per cent. for year to March 31 (18½ per cent.) is recommended. Consolidated net profit is £31,526 (£8,982) after tax of £41,808 (£893).

W. J. BUSH & CO., LTD.—Consolidated trading profit for 1953 was £636,861 (£540,787), tax, £223,436 (£208,876); net profit, £263,026 (£196,395). Ordinary dividend recommended is 12 per cent. (10 per cent.).

GLAXO LABORATORIES, LTD.—Mr. Walter John Hurran, B.Sc., F.R.I.C. (formerly managing director of the company's New Zealand subsidiary), has been appointed an executive director.

ASCOTTS PHARMACIES, LTD.—Group net loss for year ended September 30, 1953, was £252 (profit, £4,824). Tax, £1,541 (£3,466); current assets, £124,249 (£88,283); fixed assets, £105,858 (£46,235); preference dividend, nil (£1,925). Preference arrears £7,000 gross.

AMBER CHEMICAL INDUSTRIES, LTD.—Group net profit for 1953 is £20,615 (loss of £83,000) after tax of £34 (credit £2,039) and after crediting provisions for anticipated losses on sale of fixed assets no longer required, £1,378 (debit £35,555). No

ordinary or preference dividends are recommended.

CROOKES LABORATORIES, LTD.—Application has been made to the London Stock Exchange for permission to deal in and for quotation for the whole of the issued share capital of the company. Dealings are expected to begin on June 14. The issued one-class capital is comprised of 600,000 5s. shares.

### New Companies

P.C. = Private Company; R.O. = Registered Office

A. FAULL, LTD. (P.C.)—Capital £1,000. To carry on the business of wholesale and retail chemists, etc. Directors: Clara Faull and Freda Lightowler, 110 Bierley Lane, Bradford, and Margaret E. Faull.

KELLY (STOCKBRIDGE), LTD. (P.C.)—Capital £2,000. To carry on the business of chemists, druggists, etc. Directors: Stella D. Kelly, Roger M. Brooks, and Albert D. Oxford. R.O.: High Street, Stockbridge, Hants.

D. R. & G. J. WILLIAMS, LTD. (P.C.)—Capital £5,000. To carry on the business of chemists, herbalists and seedsmen, etc. Directors: David R. Williams, M.P.S., Gwilym J. Williams, M.P.S., Margaret H. Williams, M.P.S., and William V. Williams. R.O.: 1 Sakeleys Road, Ickenham, Middlesex.

## THE WEEK IN PARLIAMENT

MR. S. T. SWINGLER asked the Minister of Health, on June 4, if he would make a statement on a public warning issued by his department about the use of teething powders and if he would consult with the Home Secretary over means of ensuring that teething powders containing poisonous substances were only obtainable on a doctor's prescription. THE MINISTER (Mr. Iain Macleod) said that no public warning had been issued but that notes were issued to editors of women's magazines. The notes called attention to the possible harm in giving repeated doses of teething powders without medical advice. On the second part of the question he had nothing to add to replies that had been given previously.

## BUSINESS CHANGES

MR. JAMES F. O'DOWD, Ph.C.I., has acquired the pharmacy at 69 Upper George's Street, Dun Laoghaire.

MR. GEORGE ROBERTS, M.P.S.I., is to open a pharmacy at 105 O'Connell Street, Limerick.

HYGIENIC DRINKING STRAWS CO., LTD., have moved to larger premises at College Road, Fishponds, Bristol, 6 (telephone: Bristol 53268).

## JUDGMENT IN SHELLAC-STANDARDS ACTION

### “Essentially a Matter for Trade Arbitrators”

A CONSIDERED judgment was given in the Queen's Bench Division, London, on June 2, by Mr. Justice Devlin in consolidated actions arising out of a number of contracts for the purchase of shellac (see *C. & D.*, May 15, p. 547). The plaintiffs, who were the buyers, were F. E. Hookway & Co., Ltd., Eastcheap, E.C.3. They sued the sellers on one contract, Alfred Isaacs & Sons, Fenchurch Street, claiming to reject fifty bags of shellac on the ground that it did not accord with the contract, which called for "F.O. Pure T.N. Shellac," equal to London standard sample. The plaintiffs also sued Mr. H. C. Graves, Lime Street, and Mr. A. J. Hill, Creechurh Lane (chairman and secretary respectively of the London Shellac Trade Association), alleging that certificates of quality and awards issued by certifiers and the Committee were void and ought not to be enforced. The defence was a denial that plaintiffs were entitled to reject the goods. It was contended that the certificates and awards were valid.

In his judgment, Mr. Justice Devlin said the complaint of plaintiffs was that the decision of the committee was arrived at in their absence, in the actual presence of their opponents, and without hearing the grounds for the application. He (the judge) confessed he found it difficult to understand how it could be argued that such a precedent was not irregular. Every arbitrator knew, or ought to know, that it was wrong to decide any point in the course of the arbitration without giving

ing both parties a hearing. In his judgment that irregularity was sufficient by itself to amount to an improper conduct of the proceedings, enabling him, if he thought fit, to exercise his powers under section 23 of the Arbitration Act and set aside the awards. He thought it was an irregularity that affected the proceedings on February 12 as well as on February 2.

The contract called for the tender of two documents: the certificate of quality and an analysis. It was not disputed that the analysis was required to relate only to the absence of resin. The seller was not required to tender an analysis showing that the parcel was free of opiment or other adulterating matter. The fact that he was not required to tender such an analysis did not of itself preclude the buyer from having the parcel analysed. It had been proved beyond question that it had been customary, for as long as anyone could remember, for all questions of quality under the delivery contract—whether determined by certifiers or by the committee on appeal—to be determined by a visual comparison of samples.

Under any arbitration agreement, the arbitrator was under a duty to receive all admissible evidence that was relevant to the matter which he had to decide. Had a custom been proved which limited the arbitrator's powers and duties in that respect? In his lordship's judgment the evidence fell short of that. The fact that the arbitrators had in the past always succeeded in

solving the disputes that came before them by the application of a certain test proved no more than that the test was generally regarded as satisfactory; it proved nothing at all about the terms of the authority conferred upon them.

The plaintiffs, he thought, were entitled to have the awards set aside. The question was whether the matter should go back to the committee for reconsideration or be gone into afresh by the court. For many years the London Shellac Trade Association had settled its own disputes internally and to the satisfaction of all its members, and he was reluctant to interfere with that process if it could be reasonably avoided. The matter under dispute was essentially one for trade arbitrators. Proceedings in court would be more expensive and less satisfactory. He did not doubt from the evidence he had heard that the vast majority of disputes had in the past been conducted in a friendly and informal atmosphere.

He (the judge) thought he had power to grant the relief that was sought in the statement of claim, or any other appropriate relief within the powers given to the court under the Arbitration Act. He therefore ordered that those awards should be set aside under section 23 (2) and that the matters referred to should be remitted under section 22 (1) for the reconsideration of the committee.

He ordered that the plaintiffs should have half the costs of the proceedings. Leave to appeal was granted.

## PERSONALITIES

MR. THOMAS C. PRICE, M.P.S., Rhayader, Radnor, has been elected chairman of Rhayader parish council.

MR. D. M. NEIL, M.P.S., who has been elected chairman of the Finchley Division of the North London Pharmaceutical Association, is a native of Auchinleck, Ayrshire. He was educated at Ayr Academy and Glasgow Technical College, served his apprenticeship in Kilmarnock and qualified in 1931. After re-

tail employment in Scotland and in North London, he acquired his own business in Whetstone, London, N.20, in 1940.

MR. JAMES HEGARTY, M.P.S.I. (P. C. Cahill & Co., Ltd., Dublin) recently won the captain's prize at the Royal Dublin Society's golf club, Dollymount, Dublin.

MR. ARCHIE McCONNOCHIE, northern sales manager for Coty (England), Ltd., 239 St. Vincent Street, Glasgow, has been made a justice of the peace for the City of Glasgow.

PROFESSOR D. M. NEWITT, F.R.S. (Courtaulds professor of chemical engineering, Imperial College of Science and Technology, London, S.W.7) has been nominated as president of the Association of Scientific Workers.

MR. F. G. JORDAN, M.P.S., Sheringham, Norfolk, has been elected vice-president of the Cromer Rotary Club. Mr. Jordan recently retired, after eight years' service, from the bench at Cromer magistrates' court, on which he sat by virtue of office as chairman of Sheringham urban district council.

MR. E. J. A. STONE, M.P.S., who has been elected chairman of the Norwich Branch of the Pharmaceutical Society, is a native of Norfolk. He qualified in 1928 from the South of England College of Pharmacy, London, S.W.9, and is a manager with Boots, Ltd., in Norwich. He has been a member of the committee of the Norwich Branch of the Society for a number of years and was vice-chairman for the year 1953-54. He has been a member of the Norwich Pharmaceutical Committee since 1948, and is the employee representative on the hours of service committee of the Norwich Executive Council.



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tail employment in Scotland and in North London, he acquired his own business in Whetstone, London, N.20, in 1940.

MR. BERNARD J. COOPER, M.P.S., has been designated the new vice-president of the Plymouth Rotary Club. He has been a member of the club since 1930 and is a divisional commandant in the Plymouth city special constabulary. He was one of those who helped to form the Plymouth air cadet defence corps. For fifteen years he was an unofficial visitor at Dartmoor prison.

MR. LAURENCE O'DEA, L.P.S.I., Main Street, Swords, co. Dublin, drew the Derby winner "Never Say Die," in the Irish Sweepstake, but before the race sold a half-share in his ticket for £975; with the remainder he won £25,000. One Dublin newspaper referred to Mr. O'Dea as the "handsome thirty-four-year old Swords chemist" and "the most eligible bachelor in County Dublin." A second prize worth £20,000 was won by MRS. ELLEN REILLY, mother of Miss Rose Anne Reilly, a pharmaceutical chemist who left pharmacy to manage her mother's hotel.

MR. W. H. JAMES, M.P.S., Sidmouth, who has been elected chairman of the Exeter Branch of the Pharmaceutical Society, qualified in 1926 from the South of England College of Pharmacy, London, S.W.9. After working in London and Liverpool, he moved to Devonshire in 1936 and has been in business on his own account since 1940. He is the chairman of the Committee of the Exeter Branch of the National Pharmaceutical Union.

MR. JOHN BRADBURY (sales manager, Wigglesworth, Ltd., Westhoughton, Lancs), has been elected chairman of the Manchester Branch of the Incorporated Sales Managers' Association. Mr. Bradbury, who holds the B.Sc. (Hons.) and M.Sc. degrees, was originally destined for a career in scientific research, but switched to commerce. Prior to moving to Lancashire in 1945, he was a member of the Nottingham Branch of I.S.M.A. From 1949-53 he was treasurer of the Manchester branch, and for two years during that period acted as convenor of the export subcommittee.

MR. WILLIAM D. BRYAN, who has set up as a manufacturers' agent in South Wales and neighbouring areas (see p. 598), is well known throughout the principality, being an active member of the local branch of the Royal Air Force Association, and an ex vice-chairman of the Swansea West Conservative Association. He has taken an active part in the social and political life in his home town of Swansea. Thirty-eight years of age, a Fellow of the Royal Economic Society, and a keen amateur photographer, Mr. Bryan was married two years ago. Dur-

ing the 1939-45 war he served with the Royal Air Force (Fighter Command).

MR. GEORGE W. HIND, M.P.S., who has been elected president of the Hull Chemists' Association and chairman of the Hull branch of the Pharmaceutical Society served his apprenticeship in East Hull, and after training at the Hull technical College he attended Nottingham University, qualifying in 1935. During the 1939-45 war, Mr. Hind saw service in the Middle East and Italy, and upon his release joined the staff of E. A. Brocklehurst, Ltd., and is now manager of that company's Willerby Road, Hull, pharmacy. He has acted as employees' representative on the Hull Pharmaceutical Committee since 1948.

MR. RALPH KOHN, Ph.C., has been awarded the Charter travelling scholarship for 1954-55 by the Council of the Pharmaceutical Society to enable him to go to Rome to continue his studies in pharmacology. Mr. Kohn holds the B.Sc. (Pharm.) degree of the University of Manchester, obtained in 1951, and the M.Sc. degree of that university, obtained in 1953. He was registered as a pharmaceutical chemist in 1952. Since 1951 he has been a demonstrator in the department of pharmacology, Manchester University, where he has also been engaged in part-time research and has submitted a thesis for the University's Ph.D. degree. The scholarship was instituted by the Society's Council to commemorate the centenary of the granting of its Royal Charter in 1843 and is of the value of £600.

MR. K. HOLLAND, M.P.S., who has been elected chairman of the Romford Branch of the Pharmaceutical Society, qualified in 1938 from the London College of Pharmacy, London, S.W.9, and worked in retail pharmacy until joining the Royal Air Force, in which he served for five years, being demobilised with the rank of flight-lieutenant. In 1946 he joined May & Baker, Ltd., as medical representative covering their Essex territory. He joined the wholesale staff of Macarthy's, Ltd., Romford, in 1948, and was made a director of that company in 1952. He was treasurer of the Romford Branch of the Pharmaceutical Society from 1951 to 1953.



MR. F. J. D. McDougall, who was recently elected chairman of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society, has been the proprietor of the retail pharmacy of J. M. Douglas, Peebles, since the death of Mr. J. M. Douglas in 1947. He served his apprenticeship in Edinburgh and qualified in 1937, coming to Peebles in 1945 as a partner to Mr. J. M. Douglas, who was his father-in-law. He has been on the committee of the Branch for about ten years. He is a past-president of the Peebles Rotary Club, a past-chairman of the Old People's Welfare Committee and president of the Rugby Football Club.

MR. P. J. C. BOVILL, Housley Park, Chapelton, Sheffield (an assistant managing director and a local director of Newton, Chambers & Co., Ltd., and general manager of its chemicals branch), has been appointed a county magistrate in the West Riding of Yorkshire. He has lived and worked in South Yorkshire for over thirty years. He was educated at Cheltenham College and qualified in fuel technology at Sheffield University. Mr. Bovill entered the service of Thorncleiffe Coal Distillation, Ltd., in 1922, and became, in 1941, general manager of the chemicals branch. He is chairman of the Sheffield No. 1 Hospital Management Board and in that connection was recently awarded the Queen's Coronation medal. He is a governor of the Sheffield Trustees Savings Bank, chairman of the Wentworth Local Association of Boy Scouts, a churchwarden of St. John's Church, Chapelton, and is active in the work of the Thorncleiffe Social and Recreational Association.

MR. PENLAN L. JONES, who has been elected chairman of the Slough Branch of the Pharmaceutical Society, served his apprenticeship in Swansea, and qualified in 1930 from Swansea Technical College, where the head of the pharmacy department at that time was Mr. H. Davis, Ph.C. (now Dr. H. Davis, chief pharmacist to the Ministry of Health). After working as a qualified assistant and subsequently in a number of managerial appointments in London, Mr. Jones served in the Royal Air Force during the 1939-45 war, in the United Kingdom and in India. After demobilisation, he accepted further managerial appointments before acquiring his own business in Slough in 1950.



After working as a qualified assistant and subsequently in a number of managerial appointments in London, Mr. Jones served in the Royal Air Force during the 1939-45 war, in the United Kingdom and in India. After demobilisation, he accepted further managerial appointments before acquiring his own business in Slough in 1950.

## DEATHS

ABERNETHY.—On May 20, Mr. James Abernethy, M.P.S., Deveron, Mayfield Drive, Nower Hill, Pinner, Middlesex, aged sixty-eight.

ANDERSEN.—On May 27, Mr. C. E. M. Andersen, aged seventy-seven. For several years prior to his retirement in 1947, Mr. Andersen was director in charge of the London house of Evans Medical Supplies, Ltd. He joined the company in 1891, and served both in Liverpool and in London in executive and directorial capacities. His son, Mr. E. M. Andersen, is sales manager of the company's London house.

BUXTON.—Suddenly on May 25, Professor J. B. Buxton (principal and dean of the Royal Veterinary College) aged sixty-six. Professor Buxton was appointed veterinary superintendent at the Wellcome Physiological Laboratories in 1912. He established the basis of the present veterinary department and had much to do with the development of the production of tetanus antitoxin on the large scale demanded during the 1914-18 war. In 1922 he became director of the farm laboratories of the Medical Research Council, and later became Professor of Animal Pathology at Cambridge University.

DEMPSTER.—At a hospital, Carlisle, Lanarks, on May 28, Mr. John Smail Dempster, M.P.S., Allandene, Broughton Road, Biggar, Lanarks. Mr. Dempster qualified in 1907.

NIXON.—Suddenly, on May 26, Mr. Gilbert Andrew Nixon, M.C., B.Sc., M.P.S., aged thirty-seven. Mr. Nixon was a director of Ayrton, Saunders & Co., Ltd., Liverpool. He was apprenticed to Mr. T. Ashworth, Bedford Street, Liverpool, and gained the Jacob Bell scholarship in 1938. He qualified as a chemist and druggist in 1939 and in 1949 gained the B.Sc. degree of London University with second-class honours in chemistry. He became a director of Ayrton, Saunders & Co., Ltd., in 1953. Mr. Nixon served with the British Military Mission to South Africa in 1941, and with the Eighth Army during his service, during which he was twice wounded and was awarded the Military Cross. After being associated for eighteen years with the 1st Battalion, Liverpool Scottish Regiment, T.A., he gave up his command of the Battalion in 1953. He was a member of the council of the Association of British Pharmaceutical Industry.

OWEN.—At St. James' Hospital, London, S.W.12, on May 14, Mr. Evan Thomas Owen, M.P.S., 12 Eswyn Road, London, S.W.17, aged eighty-two.

SMITH.—On May 15, Mr. Alfred Edwin Smith, M.P.S., Thornton Curtis, Ulceby, Lincs, aged sixty-two.

WADE.—In Manchester Royal Infirmary on May 3, Mr. Stanley Wade, M.P.S., 11 Alexandria Drive, St. Annes-on-Sea, Lancs, aged forty.

WAIN.—On May 21, Mr. Cecil Alexander Wain, M.P.S., 96 Lister Street, Rotherham, Yorks, aged sixty.

## INQUESTS

**Danger Not Realised.**—At an inquest at Altringham, Cheshire, on May 31, on Mrs. H. E. Elliott, Trafalgar Road, Sale, the Central Cheshire coroner said: "Although Mrs. Elliott took fifteen times the allotted dose of Soneryl tablets, there is no suggestion of suicide . . . I think she did not realise the danger of the tablets."

**Idiopathic Gastro-enteritis.**—At an inquest at Ealing recently on a child who died of idiopathic gastro-enteritis within twenty-four hours of being taken ill, Dr. R. C. Fuller, Acton Hospital, said that the child was given injections of streptomycin. Tests were carried out, but no organisms of any known disease were found. A pathologist said that the death was not due to food poisoning. It was not the first case of its kind. The verdict was death from natural causes.

**Unintentional Overdose.**—At a Wallasey inquest, on June 4, a verdict of death by misadventure was recorded on Mrs. Ann Worthington, aged seventy-five, 92 Town Meadow Lane, Moreton. The coroner said he was satisfied that Mrs. Worthington had had no intention of committing suicide. He found that she had died at Victoria Central Hospital, Wallasey, on June 1, from cerebral softening accelerated by her unintentionally consuming a mild overdose of phenobarbitone, her mind being unbalanced at the time.

**Child Takes Mother's Pills.**—Thinking no doubt they were sweets. Thomas Watson, seventeen-months-old son of Mr. and Mrs. T. W. Watson, 14 Erskine Street, Liverpool, ate some of his mother's tonic pills and died from poisoning, said the Liverpool city coroner on May 31, when he recorded a verdict of misadventure. Evidence was that the pills were prescribed for Mrs. Watson when Thomas was born. After taking some, she left the remainder in a packet in a cupboard in the bedroom and forgot about them. On the morning of May 28 the child was ill and some of the pills were on the bedroom floor. He died later that day in hospital from ferrous sulphate poisoning.

## WILLS

MR. D. ANDERSON, M.P.S., 38 Gladstone Place, Aberdeen, left £12,512.

MR. T. H. H. BENNETT, M.P.S.N.I., 4 Green Road, Belfast, who died on November 8, 1953, left £6,743.

MR. E. P. CAINE, M.P.S., 110 Cambridge Gardens, W.10, left £2,298 (£1,083 net).

MR. A. J. JENKIN, M.P.S., 12 Hurst Road, London, N.21, left £3,412 (£2,046 net).

MR. H. J. HORNBY, 6 Melvinshaw, Leatherhead, Surrey (former chairman and managing director of A. Gallenkamp & Co., Ltd., London, E.C.2), left £38,827 (£31,858 net).

MR. W. B. LLOYD, Ph.C., M.P.S., Limefield, Bollington, Macclesfield, Ches, left £1,093 (£1,025 net).

MR. H. A. MARTIN, M.P.S., 13 Park Avenue South, Northampton (for several years secretary of the Leicester Branch of the Pharmaceutical Society), left £4,966 (£4,907 net).

MR. A. E. MORGAN, 44 Lansdowne Road, Stanmore, Middlesex (former general manager of R. Hovenden and Sons, Ltd.), left £7,435 (£7,350 net).

## TRADE NOTES

**Agencies in India.**—B. D. Baria & Co., Adenwalla Building, 19 Mathew Road, Bombay, 4, India, are interested in taking up agencies for British manufacturers of drugs and medicines.

**An Additional Strength.**—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, have made available 10-mgm. tablets of Largactil brand chlorpromazine hydrochloride.

**Additional Sizes.**—Genatosan, Ltd., Loughborough, Leics., have made available in an additional 2-oz. tube their specialities Zichol and Psorox. Their tab. codeine co. (scored) in 25's, are now available in 1-doz. outers.

**Quick Curlers.**—J. Walter & Co., Wickhambreaux, Canterbury, Kent, are the sole manufacturers of Quick curlers for use in home permanent waving. The curlers are packed in a display carton.

**Discontinued.**—Charles Midgley, Ltd. (a subsidiary of Evans Medical Supplies, Ltd.), Speke, Liverpool, 19, have discontinued the manufacture of Gladys Cooper blush rouge. All stocks are exhausted.

**Bonus During June.**—In return for a counter display of Veet hair remover, Dae Health Laboratories, Ltd., 17 Berners Street, London, W.1, are offering bonuses of thirteen to 1 doz. small and fourteen to 1 doz. large sizes.

**Temporary Address for Scots.**—The Cooper Laboratory, Ltd., announce that Mr. Sandy Paterson, their Scottish representative, is at present in hospital. Communications for the company should therefore be sent direct to Old Farm Road, West Drayton, Middlesex.

**Argentine Buyer's London Visit.**—During September, Mr. Sigfredo Chlamtatsch-Clamans is visiting Britain, when he hopes to meet manufacturers of goods suitable for the Argentine and other South American markets. Mr. Chlamtatsch-Clamans may be contacted through John Gardner (London), Ltd., Bridge House, London Bridge, London, S.E.1.

**Disposable Vaginal Applicators.**—Kylon, Ltd., 10 Sackville Street, London, W.1, state that their disposable vaginal applicators conform to the Drug Tariff specification. The applicators are distributed to chemists through wholesalers by Tampax, Ltd., individually wrapped in a carton of fifty. They are also issued in sets of one doz. applicators with one tube of Kylon vaginal jelly.

**Two-plane Showcard.**—Westminster Laboratories, Ltd., Chalcot Road, London, N.W.1, have produced the new showcard illustrated. The showcard is

finishes at Alexandra Palace, London, on June 19, has been provided by Aspro, Ltd., Slough, Bucks. The service is available to all fifty contestants, who come from Britain, France, Italy and Belgium.

**Inhalant Prices Agreed.**—Following the recommendation of the Cohen Committee that freedom to prescribe for National Health Service purposes should be dependent upon price agreement with the Ministry of Health, Rybar Laboratories, Ltd., Tankerton Kent, announce that, from July 1 Rybarvin and Rybalex will be supplied at agreed reduced prices to be announced. Adjustment will be made for stocks held at that date.

**No Licence Restrictions on Machine.**—Manesty Machines, Ltd., Speke, Liverpool, 19, state that the Drycota tablet compressing and coating machine is entirely of their design and manufacture and has no connection with any other device or press-coating process. The machine is the subject of patent applications. It is available for outright sale and is not subject to any licensing arrangements. Full specifications, photographs and sample tablets are available from Messrs. Manesty on request.

**Area Agencies.**—Mr. William D. Bryan, Hillingdon, Penmaen Terrace, Swansea, has commenced business on his own account as a manufacturers' agent, and has been appointed sole agent for Modkem, Ltd. (successors to Wands, Ltd.), Leicester; Warner Harvey & Co., Ltd., Albemarle Street, London, W.1 (distributors of Raymond's R77 shampoo); and for A. E. Stannard, Ltd., Fleet, for the whole of South, West, and Mid Wales, Monmouthshire, Herefordshire, and Gloucestershire, and sole agent for Roberts Windsor Soap Co., Ltd., for West and Mid Wales. Mr. Bryan founded the business of Don Bryan, Ltd., wholesale chemists and druggists, Mariner Street, Swansea, later taken over by Evans Medical Supplies (Wales), Ltd. Since then he has represented in the South and West Wales territory J. Grossmith & Son, Ltd., London; G. B. Kent & Sons, Ltd., London, and other well-known manufacturers.

### Holiday Closing

The works of the Leyland & Birmingham Rubber Co., Ltd., Leyland, Lancs, are closing on Friday evening, July 16, and re-opening on Monday, August 2. A small staff will be on duty to deal with urgent correspondence.

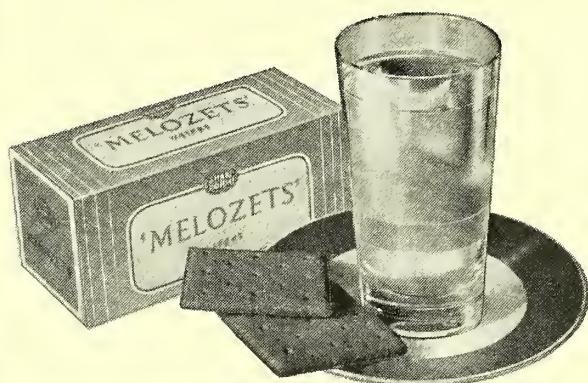


SALES CONFERENCE : Representatives of May & Baker, Ltd., photographed at the company's headquarters at Dagenham.

## TRADE NEWS IN PICTURES



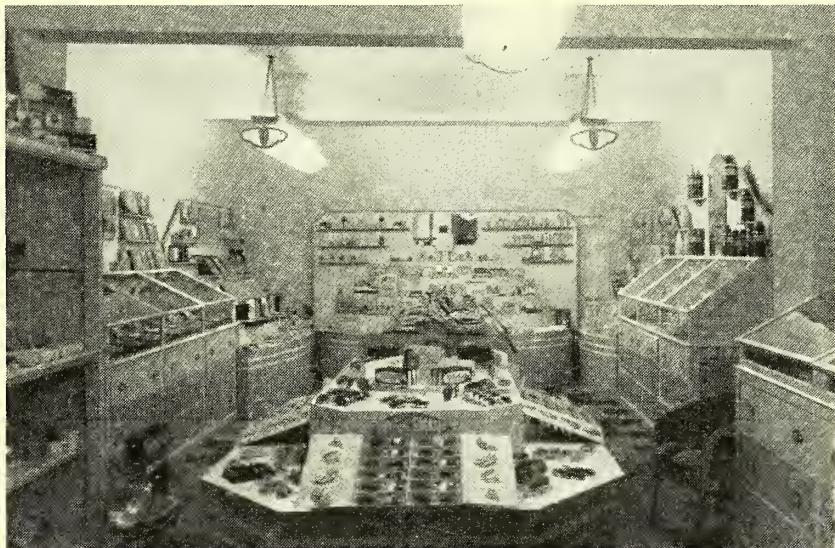
Show material for Robinson's lemon barley water and soft drinks (see *C. & D.*, May 29, p. 549).



Melozets methy-cellulose wafers, a recently introduced speciality of Sharp & Dohme, Ltd. (see *C. & D.*, May 8, p. 469).



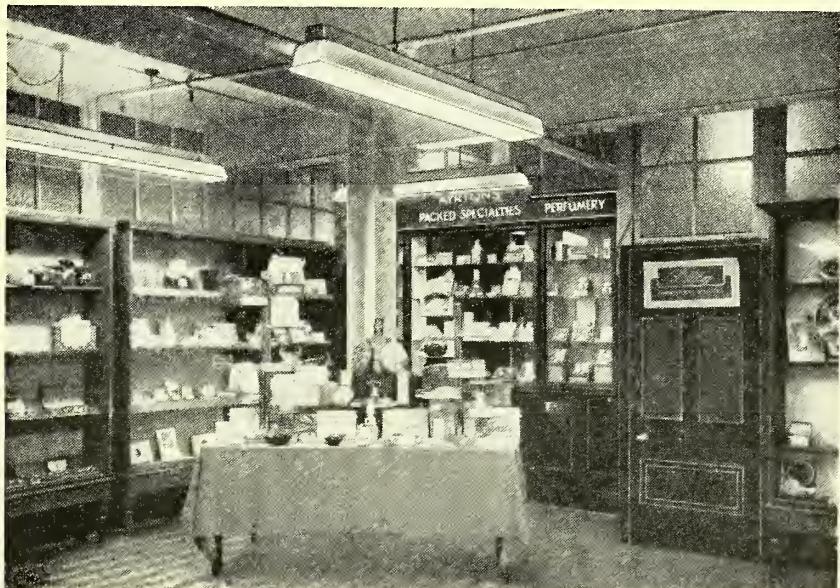
Display packs for Taylor's zinc oxide plasters and Flexoplast first-aid dressings. A bonus offer by the makers, Edward Taylor, Ltd., Merton, Eccles, Manchester, ends on July 3.



New showroom recently opened by C. R. Crosskill & Sons, makers of Norvex toilet sundries, Norwich.



Showstand for "sunblinkers" (see *C. & D.*, May 8, p. 469). The stand is supplied free with orders for one doz.



A corner of the recently remodelled showroom of Ayrton, Saunders & Co., Ltd., Liverpool.

**Anti-moth Tablets.**—New Hygiene, Ltd., 266 Holloway Road, London, N.7, draw attention to their new Scentsinel mottos pack of twelve anti-moth tablets in rigid plastic tube (two doz. in decorated 7 x 5 in. carton display unit).

**PHARMACEUTICAL SOCIETY OF GREAT BRITAIN**  
**COUNCIL ACCEPTS THREE RESOLUTIONS**

Meets Representatives' wishes on tablet colouring, hospital salaries and branch reports

AT a meeting of the Council of the Pharmaceutical Society, held in London on June 2, a report on the Branch Representatives' meeting, held on May 20, was received (see *C. & D.*, May 29, p. 544). The Council approved recommendations to accept the resolutions on the colouring of tablets, hospital salaries, and reports of branch meetings. It was also recommended to send a letter calling attention to the terms of the resolution on tablets to the Association of British Pharmaceutical Industry and to the Minister of Health. Accounts of the serious position in pharmacy departments of hospitals through shortages of staff were given by DR. B. A. YOUNG and MR. H. S. GRAINGER, and ways in which the Society might assist in remedying the situation were considered. The Organisation and Public Services Committee agreed to refer to the Education Committee the resolution on conferment of the Fellowship. The Law and Ethical Committee considered the resolution on the opening hours of pharmacies and decided to appoint a subcommittee on the subject when the new Council committees had been formed.

*New Members Welcomed*

Earlier, the retiring president (MR. T. HESELTINE), had welcomed the three new members of Council (Messrs. J. C. Bloomfield, W. Cooper, and H. S. Grainger). MR. HESELTINE paid a tribute to the work of Mr. Walter Deacon, who had resigned from the Council after having served on it since 1930. During that period, he said, Mr. Deacon had three times occupied the office of president. He had served on all committees and been chairman of most of them. The Council much appreciated the work he had done. Another loss was that of Mr. F. C. Wilson, who had served on the council for fifteen years, had served on many committees, and had been vice-president and president. Mr. Wilson had shown himself a man of ability with the welfare of pharmacy at heart. The Council appreciated his services. Mr. H. T. Thomas had retired on medical instructions, and Mr. Heseltine felt that the Council had lost a valuable member in him.

On the proposal of THE PRESIDENT, MR. E. A. Brocklehurst was elected *President*. MR. HESELTINE congratulated Mr. Brocklehurst on his election. Mr. Brocklehurst, he said, had many qualities. Amongst them integrity stood out. MR. BROCKLEHURST was then invested with the chain of office and, taking the chair, thanked the Council for the confidence they had shown in him, and Mr. Heseltine for his work as president during the previous year.

On the proposal of MR. HESELTINE, Mr. H. Steinman was elected *Vice-president*. Mr. W. S. Howells was re-elected *Treasurer*.

It was reported by the Organisation Committee that Messrs. D. W. Hudson, J. H. Ramsay and A. Sterling had accepted invitations to read papers at the Branch Representatives' meeting at Oxford in September on "Developments and Changes in Pharmaceutical Practice in Post-war Years." They would deal respectively with general, hospital, and manufacturing practice.

THE TREASURER reported upon discussion at a meeting held at the instance of the Law Society to consider the Tucker Committee's recommendations on the taxation treatment of provisions for retirement. He and the financial officer had been present on behalf of the Society. Mr. Howells said that the report concerned mainly those who were not fortunate enough to be in any superannuation scheme, and who, because of the present high taxation level, were finding it difficult to provide sufficiently for their old age and retirement. The Law Society had given valuable evidence to the Tucker Committee, and many other organisations had also provided information. The

aim was to obtain taxation relief for the self-employed, for part-time directors, for employees who were not provided for, and the like. It was known that the Chancellor of the Exchequer could not do anything for them in 1954, but the purpose of the meeting was to consider what steps the professions might take to facilitate the implementation of the report, in the hope that the matter might receive attention in the 1955 Budget. Another meeting was being held in the near future.

The Council appointed Mr. Heseltine to be its representative on the council of the International Pharmaceutical Federation for 1954-56. It was noted that the council would meet in Brussels on September 6 and 7.

An invitation for the president to attend the eighth Scandinavian Pharmaceutical Congress, in Copenhagen, June 14-16, was received from the Danish Pharmaceutical Society and accepted. A letter from the Union of Pharmaceutical Societies of Yugoslavia suggested that representatives of the Society should visit Yugoslavia as their guests. It added that Yugoslav pharmacists were particularly interested in pharmacology, toxicology and biochemistry. The secretary was asked to write for further information.

THE REGISTRAR reported that an invitation had been received from Mr. G. H. Hughes (writing as mayor of Colwyn Bay) for the Council to hold one of its monthly meetings at Colwyn Bay, and October had been suggested as suitable. The Council agreed to accept the invitation.

The president was chosen to represent the Society at the sesquicentenary celebrations of the Royal Horticultural Society on July 27. He would present an address on behalf of the Society.

On behalf of the Education Committee MR. C. W. MAPLETHORPE reported that the committee appointed to consider applications had recommended that the Charter travelling scholarship for 1954-55 should be awarded to Mr. Ralph Kohn, Manchester, to enable him to undertake a year's study in Rome. The Council approved.

The Organisation and Public Services Committee reported that a residential summer school would be held by the Central Council for Health Education at Reichal Hall, Bangor, August 17-27, and that the Society had been asked to send a representative. Mr. G. H. Hughes was asked to attend.

*Benevolent Fund Regulations Amendment*

The Benevolent Fund and War Aid Committee approved the following amendment to the regulations of the Benevolent Fund to bring them into line with the new Charter:—

"The object of the Fund is to provide relief for distressed persons who are or may have been registered pharmacists, their widows, orphans or other dependents and registered students of the Society."

It was reported that since the previous meeting the Benevolent Fund had received legacies of £150 from the late Mr. A. W. Gedde, Malvern, and £10 from the late Mr. G. W. Darling, Gosport. Grants amounting to £239 had been made to four widows and three members. The grants amounting to £645 to four other widows and a member were approved. From the Orphan Fund a grant of £26 was made. To two member applicants for assistance from the War Aid Fund grants amounting to £53 were made and a recommended grant of £156 to a widow was approved.

Further sums of £4 5s. were received from the Rhyl Branch towards furnishing the North Wales room at Birds-grove House, and of £40 from the West Ham Association for furnishing in the Cumberland room. It was agreed to use for additions to the sectional bookcase in the lounge

gift of £10 10s. offered by the North Devon Pharmaceutical Association. The warden's report stated that, in the month to May 16, forty-four guests stayed at the home for an aggregate of fifty-five weeks (against sixty guests and eighty weeks in the corresponding month of 1953). Thirteen contributions from guests to supplement weekly payments amounting to £58 were received (eight contributions, totalling £18). Several further gifts in kind were also reported.

The curator's report to the Establishment Committee stated that an exhibition that was being prepared for presentation in the name of the Society at the annual meeting of the British Medical Association in Glasgow would be on view July 5-9. Its theme would be the pharmacy of complex molecules and it would display some of the recent advances in pharmaceutical methods and techniques.

#### Films Committee's Report

The Films Committee's report mentioned that a film, "E. Coli," with an English sound track, would be available for use in the immediate future, and that four films on elementary bacteriology were expected to be completed in June and available for use by branches in the autumn. The Council accepted a recommendation to have two copies made of the film "Counting the Cost," illustrating the work of a pricing bureau. One copy would be for current use and the other placed in the Society's film

library. It was also reported that a copy of *Science and Film* would in future be available in the Society's library. The Committee pointed out that, under new arrangements, members of the Society could join the Scientific Film Association without payment of the special entrance fee.

A letter was received from the *Journées Pharmaceutiques Françaises* calling attention to their conference in Paris, October 4-9, at which "The Conservation of Medicines" would be discussed. It was hoped that British pharmacists would attend.

The action of the secretary in making payments amounting to £3,622 and of the treasurer in paying accounts amounting to £33,259 were approved. In April, the Society's inspectors and agents visited 1,077 authorised sellers, 195 listed sellers, and 361 drug store proprietors and similar traders. Nine cases of alleged infringement of the Pharmacy and Penicillin Acts were considered and appropriate action taken.

It was agreed to add to the register the names of eleven persons formerly resident overseas who had applied for registration under reciprocity arrangements. An additional application was granted subject to submission of the required documents. The names of six former members of the Society had been restored. The Council decided to hold a special meeting on June 30 to appoint members to the Statutory Committee and form the Standing Committees of the Council.

## NEW PRODUCTS AND PACKS

**Antihistaminic Lotion.**—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, announce the introduction of Anthical brand lotion, presenting mepyramine maleate with zinc oxide in a flesh-tinted preparation for topical application. Anthical lotion combines the analgesic, antihistaminic and antipruritic properties of the mepyramine with the soothing, mildly astringent properties of zinc oxide. It is intended for topical application in sunburn, insect bites, prickly heat and minor pruritic conditions. It may also be used in more severe pruritus and in allergic skin disorders when an antihistamine in a non-greasy liquid vehicle is indicated.

**A Sympathicomimetic Agent.**—Gale & Mount, Ltd., 37 Rothschild Road, London, W.4, are distributors for Corvasymton, a sympathicomimetic agent manufactured by N. V. Philips-Roxane, Amsterdam, Holland. Corvasymton (1-p-oxyphenyl)-2-methyl-aminoethyl tartrate) is understood to stimulate the heart muscle. It is indicated in disorders of the cardiovascular system, in surgical collapse, and in pre- and post-operative treatment. Corvasymton is issued as a 10 per cent. oral solution in 15-c.c. vial, 100-c.c. and 500-c.c. bottles; as 100-mgm. tablets in tube of twenty and bottle of 100 tablets; and as a 6 per cent. solution for injection in boxes of six or 100 1-c.c. ampoules.

**Protective Skin Cream.**—A new long-lasting protective skin cream for use against contact dermatoses and allied conditions is being introduced by Abbott Laboratories, Ltd., Wadsworth Road, Perivale, Middlesex, under the title Covicone cream. The product is a plasticised combination of silicone (dimethylpolysiloxane), nitrocellulose and castor oil suspended in a greaseless vanishing-cream base. The ingredients are occupational derma-

toses; non-industrial dermatoses of allergenic origin; lesions irritated by scratching; inflammation from body fluids; soap-and-water dermatitis, etc. Covicone is a greaseless cream whose protective film withstands normal washing of the skin. It is available in 1-oz. tube and in 1-lb. jar.

**Fully Contemporary.**—A new "sylvan beauty" range of contemporary brushware by Henderson Bros. & Co., Ltd., Wellington Road, London, E.10, makers of Hygex toilet brushcs, reflects the natural charm of the contrasting woods from which the sets are made. Their high standard of design



and finish is in harmony with the trend in contemporary furniture design and construction. The makers offer the choice of walnut, sycamore or mahogany backs—the decorative woods most popular in modern furniture, so that purchasers can match their own dressing tables. The decorative back is not

merely a veneer, but a solid piece of wood immovably bonded to a base of contrasting beech and shaped as a complete entity, the resulting two-tone effect being decidedly attractive. A feature of the "sylvan beauty" brushes and mirrors lies in the gracefully shaped handles, giving a distinctive appearance and a comfortable hold. The brush-backs are hand-polished. The sets consist of a hand mirror, hairbrush, clothes brush and comb packed in a well-proportioned gift box. The hairbrush is also marketed separately in upright, acetate-capped display packs. The brush has Nylon tufts of good proportion, quality and regularity. An attractive showcard is available and the range will be backed by strong advertising in the autumn.

**"Wonder-fabric" Sanitary Towels.** Johnson & Johnson (Gt. Britain), Ltd., Personal Products Division, Wrexham and London, offer to women, in their new product Modess Masslenn, "cotton-wool comfort at soluble price." Modess Masslenn are covered with a material of rayon and cotton. Light in weight, the towels have specially flattened ends, additional protection to prevent soiled clothes, and loops stitched to their ends.



Perfumed stationery packs offered by Castell Bros., Ltd., 14 Cross Street, London, E.C.1.





# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

## Rose-tinted Yellow

THE British Medical Journal, in its June 5 issue, has made a devastating onslaught on the yellow-tinted spectacles used by some car-drivers at night to reduce the glare of oncoming headlamps. It holds them to be, under scientific analysis, no better than the rose-tinted spectacles traditionally the symbol of unwarranted optimism. Worse, in fact, because the yellow glasses are indicted for reducing night vision to a dangerous and perhaps unlawful extent. According to the *B.M.J.* the yellow lenses have no redeeming feature. A clear-glass windscreens, it says, transmits 92 per cent. of light falling on it. Even the lightest yellow passes only 88 per cent. With spectacles worn behind a windscreens, the transmitted light that gets through to the eye is reduced to 81 per cent. "under ideal conditions." In the presence of dirt and scratches it falls again, and, as is pointed out, the Road Traffic Act lays down that all glass or other transparent material fitted to motor vehicles "shall be maintained in such condition that it does not obscure the vision of the driver." The improved vision some drivers think they get with tinted lenses is also explained scientifically. It "may be the result of their sharp cut-off in the blue region of the spectrum." But car headlights contain little blue light in their beam, and any apparent advantage is for that reason illusory.

It is difficult to believe that tinted spectacles will be able to maintain their popularity with motorists after this exposure. One would like to see a similar analysis of yellow headlamps (almost universally fitted, we believe, to French cars) and fog lamps. The *B.M.J.* gives no figures about them, but, by its reference to "a popularity spuriously spread by the *belief* [our italics] that the penetrating yellow light of fog-lamps is useful," appears more than sceptical about their utility. "Fifty thousand Frenchmen can't be wrong" ran an old slogan. That remains for somebody to demonstrate.

## A New Trade Word

A NOTICE sent out by Evans Medical Supplies, Ltd., states that, "for the convenience of customers," they have coined the word DEMIL to designate 500 mils. The intention is laudable. To order by word is less likely to cause difficulty than the use of a 3-figure number, especially when many times repeated, as in a lengthy drug order. Moreover, should the writing degenerate, the capital D probably will give sufficient clue to the

quantity required. D has the sanction of analogy, in that it is accepted for 500, though White's Latin-English dictionary states that the device for 500 is not properly the letter D, which would denote the figure 10 (decem), but half of the original Tuscan numeral for 1,000, rendered CIQ, which is like the letter D in shape.

Two things remain in doubt. One is whether the word Messrs. Evans have coined is sufficiently unambiguous to avoid confusion with DECIMIL, which has passed into the language. The second is whether it will find general acceptance, for obviously if it is a good thing it cannot be confined to one firm. We cannot help wishing that Messrs. Evans had sought and secured at least the support of their fellow members of the Association of British Pharmaceutical Industry before launching the word. To have gained the approval of a learned society or the British Standards Institution or best of all the Pharmacopœia Commission would have been even more desirable.

## Export Subsidies

SOME headway has now been made in breaking down the system of export subsidies by national governments. As a result of talks in Bonn between the Chancellor of the Exchequer (Mr. R. A. Butler) and the German Federal Minister for Economic Affairs, about a month ago, it was announced on June 4 that the Federal Government would not renew the "Law on Tax Measures for the Furtherance of Exports" of June 28, 1951, which is due to expire at the end of 1955. A start having been made, exporters will no doubt hope that a similar agreement may be reached with France, which was named by Mr. Heathcoat Amory (*C. & D.*, May 1, p. 438), as one of the principal adherents to the policy of subsidising exports.

## Onward from Galen

### A CURRENT CAUSERIE

PERHAPS it may surprise others, as it surprised me, that a sparrow lives—or can live—to the age of twelve years. In wild life it is probable that they seldom do, but in "Sold for a Farthing," Clare Kipps tells of a deformed weakling nurtured in captivity who was "born July 1, 1940; died August 23, 1952." It is true he had very special nursing and medical attention, and was accustomed to dietary delicacies—among them Dover sole and Scotch salmon—some of which would make a human mouth water. Champagne was given medicinally. In an illness, when egg and lettuce, "being too astringent," were forbidden, he was given Bemax and Glucodin and a minute daily dose of cod-liver oil. "My faith in vitamin foods and modern drugs, to say nothing of the delectable vintage, was greatly strengthened by their rapidly beneficial results on such a tiny patient," comments the author. Yet the sentence in Julian Huxley's foreword "M. & B. cured the constipation," taken away from its context, must come with something of a shock, pharmacologically speaking, to those who had never looked upon phthalyl sulphathiazole (the actual sulphonamide used) as an alternative to Beecham's pills or cascara tablets.



KNOWLEDGE and understanding of pharmaceutical education and working conditions in France has been considerably widened for many British pharmacists during recent weeks as a result of lectures by distinguished French pharmacists in this country and by the recent Franco-British Pharmaceutical Congress. An important addition to that

knowledge results from a 2,000-mile study tour made by Miss M. C. Islip (a member of the Pharmaceutical Society's council and chief pharmacist at Paddington Green Children's Hospital). Miss Islip was visiting French hospitals under the auspices of the International Hospital Federation and French Hospital Federation. Her main interest was naturally enough in the pharmaceutical services of the hospitals she visited. She found, as in England, variation between hospital and hospital, but there were two major differences between the services in the two countries. Out-patients visiting a French hospital for consultation do not receive medicine from the pharmaceutical department as in England, and the French pharmacist is often responsible for biochemical analysis. In the larger hospitals, moreover, there is a twenty-four-hour pharmaceutical service. Miss Islip speaks appreciatively of the cordiality shown her.



MANY of those British pharmacists who have taken advantage of the opportunities provided by the Franco-British Pharmaceutical Congresses to meet their opposite numbers in France may feel attracted to go one better and attend the *Journées Pharmaceutiques Françaises*. The *Journées*, which are roughly comparable to our own British Pharmaceutical Conference, are organised by the *Société de Technique Pharmaceutique*, and the provisional programme for this year's congress includes papers on the "History of the Conservation of Medicines," "Some Years of Paper-chromatography Experiments," and "Azulenes," as well as visits to factories and laboratories and an exhibition. For British visitors whose command of French, or at least ability to understand it, is adequate, the experience will have the same stimulus as overseas visitors have testified to finding at the British conferences—something that can only be gained from the strictly purposeful character of the meetings. They will have, too, a stay in Paris that, according to the promise of the organisers of the *Journées*, "nous tâcherons de rendre le plus agréable possible." Provisional details are given in our "Coming Events" column.



A GUIDE to the Isle of Skye, Lochalsh and the Outer Hebrides, written by a pharmacist, Mr. Duncan Macpherson, has already received mention in this paper. The book continues to sell well. In fact, Mr. Macpherson issues a challenge to any London author to produce comparable sales figures. "Each year," he writes, "there are printed and circulated 3,000 copies, equivalent to five copies per head of the entire population of Kyle of Lochalsh. We wonder if London can produce a book, even a subsidised one, with a circulation of 40,000,000 copies per annum." Even the obligatory periodical issued to members of the Pharmaceutical Society can only attain to a 100 per cent. distribution.

## CORRESPONDENCE

*Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.*

### CAMERAS IN WINDOWS

SIR.—In an attempted smash-and-grab raid on my premises (see p. 590), thieves climbed above steel grilles fixed on the window. They smashed a hole in the window and tried to extract cameras from the shelves. This may be a warning for other chemists to make camera shows low in the window, and not to leave expensive apparatus on high shelves.

LIVERPOOL, 7

HAROLD LOMAX

### RAISING CAPITAL

SIR.—Your correspondence columns usually give one much food for thought. On May 8 (p. 476), Mr. Whitelaw raises a serious problem, and on May 29 (p. 556) "One of the Oppressed" asks a question. May I also ask, WHY? Especially do I appeal to the rising generation. Why will you sell yourselves to "co-ops" and multiples? Yes, I

admit it is a job. It brings in a salary and keeps the wolf from the door. But where is it leading you? Just "up the garden path." Don't be misled. Are there not plenty of jobs going a-begging? Will "co-ops" and multiples help you to obtain a business of your own one day? If, as at present, they get your services and try as they are doing to purchase businesses when they come on the market, what chance will you have of possessing a business of your own? There are ways and means of obtaining the needful capital. Seek and perhaps you will find.

SCOTTISH CHEMIST

SIR.—To your correspondent who asks if I have heard of such a thing as capital I would reply that apparently he is twenty-five years late in asking that question. There are few methods of raising capital open to wage earners, and most of them entail risk. The one sure method that commends itself to the prudent is life assurance. I know of more than one business recently acquired on the security of a life policy. I am not unaware of the present difficulties attributable to treasury restrictions and the inflated price of property. It does not alter my contention that unless (and until) pharmacists conduct pharmacies (as opposed to branches of multiples and co-ops) they cannot expect to be considered "professional" men.

CUPAR, FIFE

R. S. WHITELAW

### THANKS TO VOTERS

SIR.—I wish to express my thanks to all those who supported me at the recent Council election. I greatly appreciate the interest and endeavours of so many on my behalf, such has given me much encouragement even though unsuccessful. To the successful candidates I would extend my congratulations and trust that they will derive much pleasure and rich satisfaction in their service to the profession of pharmacy.

ABERDEEN

W. A. PARK

### BRITISH FINE CHEMICALS AND THEIR USES

#### 10. SODIUM BISULPHITE

SODIUM bisulphite unless kept out of contact with air readily decomposes. The salt is prepared on the large scale by exposing moist crystals of sodium carbonate to a current of sulphur dioxide, by passing the gas through a soda solution of 21.5° Be, or less frequently by the reaction of the gas with sodium bicarbonate.

Since the change-over of using raw sulphur in place of pyrites as the original source of sulphur dioxide, there is not the same need to examine the product for arsenic, but it should give no reaction with either hydrogen sulphide, or a nitric acid solution of ammonium molybdate. The sulphites are sometimes determined alkalimetrically, using methyl orange as indicator, and also by the iodometric method. The pure salt rarely contains 100 per cent. NaHSO<sub>3</sub>, since even under the best storage conditions it deteriorates slightly with formation of the corresponding sulphate; the commercial salt usually ranges from 90 to 95 per cent. purity.

Sodium bisulphite is utilised in paper manufacture, in bleaching and dyeing, for preparing hydrosulphite and certain soluble bisulphite compounds of dyestuffs. It is used in the manufacture of glucose and by the leather, tanning and brewing industries. As a preservative for foodstuffs it is less popular than formerly. It is employed in the preparation of aldehydes, in the perfume and cosmetic industries, and to a limited extent in photographic developers. In the laboratory, sodium bisulphite represents a powerful reducing agent and is used for the reduction of ferric oxide, and the conversion of arsenic into arsenious acid. The same method of converting chromic acid into oxide used in the laboratory is followed on the large scale in chromium salt manufacturing plants. It is also utilised in certain selenium and tellurium determinations, and for other purposes in analysis generally. Sodium bisulphite represents the raw material for the production of hyposulphites and a wide variety of corresponding sulphur compounds by modern electrolytic methods.

In the ordinary way, hydrosulphites, which are so widely utilised in cleansing compositions, are prepared by treating sodium bisulphite with metallic zinc, etc. The chemical should be stored in well closed containers.

# BICENTENARY OF "FIXED AIR"

## Joseph Black and Carbon Dioxide

BY LAURENCE DOPSON

ON June 11, 1754, in a thesis presented for the M.D. degree at the University of Edinburgh, was announced to the world Joseph Black's discovery of the identity of carbon dioxide. When printed, Black's thesis, which was entitled *De Humore Acido a Cibis Orto et Magnesia Alba*, occupied only forty-six pages of large type. Within that compass the twenty-six-year-old candidate described thirty-two experiments and his important conclusions, besides giving some general background material, on which he commented: ". . . I was obliged to write it, and I shall be satisfied if it passes without notice." On June 5 he read a paper to the Medical Society of Edinburgh in which he described in rather more detail the work on which he based his thesis. It was published in English a year later in volume 2 of *Essays and Observations, Physical and Literary, read before a Society in Edinburgh*. The material was also reprinted as a pamphlet in 1777 and 1782.

### A Leader in Chemical Research

Of Black it was stated by Sir William Ramsay in his biography that he began a new epoch in chemistry. "His name must ever remain associated with those of other illustrious Scotsmen of his day as one who had led the way in chemical research and its technical applications." Black's family came from Ireland, though the title-page of his thesis describes him as "Gallus." Legend has it that an ancestor was the Laird of Lamont called *Gillie-Dhu*, "the black servant." The family afterwards adopted the anglicised version, Black. Joseph's father was a wine merchant, and Joseph was born at Bordeaux, France, on April 16, 1728, one of thirteen children.

Young Joseph received his early education from his mother. Later he went ("a young stripling boy," to quote his father) to study medicine at Glasgow University. Professor William Cullen, the first lecturer in chemistry, was then at the height of his powers, and must have aroused Black's interest in the subject. No professor took a more lively interest in the progress of an emulous student, and he soon singled out Black as his assistant. Black must always have regarded Cullen as his ideal of a great teacher. Later he was himself not only to hold a university appointment but to regard his teaching duties as so important as even to exclude or diminish research. Black was also influenced by the Berlin chemist, Markgraaf, writing of him that he described his experiments "with so much modesty and simplicity, avoiding entirely the parade of erudition and self-importance. . . ." This was the pattern Black himself followed in his thesis and paper of 1754 and indeed in all his published papers.

In 1752, after six years at Glasgow, Black went to Edinburgh to complete his medical studies, and during the next two years was engaged in his investigations on carbon dioxide. A letter to Dr. Cullen dated January 3, 1754, tells how he produced the gas by mixing some chalk and vitriolic acid at the bottom of a large cylindrical glass. The air "or vapour" so obtained "flowing out at the top of the glass, extinguished a candle that stood close to it; and a piece of burning paper, immersed in it, was put out as effectually as if it had been dipped in water: yet the smell of it was not disagreeable."

Today Black is thought of as a research chemist. It is therefore interesting to remember that his first fundamental discoveries arose not out of "pure" research but resulted from research undertaken with a definite clinical object—to find a suitable solvent for urinary calculi. While his genius lay in inanimate experimentation, he was himself

deeply interested in practical medicine, and in the letter to his father previously quoted he writes regretfully: "I have not had time this last winter to apply to it [the study of patients] sufficiently. Though I had the opportunities, my attention was too much taken up with some of the Colleges [i.e., lectures], preparing my thesis, and recalling to my mind everything I had learned, on account of the examination."

In his thesis of 1754, Black showed that the difference between calcium carbonate and calcium oxide was produced by the expulsion of "fixed air," and that the same applied to magnesium carbonate and other mild alkalis. He coined the term "fixed air" because it could thus be "fixed" in solid form. "I thought it better to use a word already familiar in philosophy than to invent a new name, before we be more fully acquainted with the nature and properties of this substance," he explained subsequently. He described both qualitative and quantitative experiments, showing by weighing that, instead of gaining something from the fire (phlogiston), limestone sustained a substantial loss owing to the escape of "fixed air." "As a result," A. Barclay sums up in the Science Museum publication, *Pure Chemistry: Historical Review*, "it can fairly be said that to Black belongs the chief credit for first emphasising proportions by weight in chemical investigation and thereby of inaugurating quantitative chemistry."

Both thesis and essay are worth reading today as an example of deductive reasoning leading to careful experiment. An interesting picture is conjured up, incidentally, of the undergraduate going along to a smithy and enlisting the blacksmith's co-operation in his research: "I therefore made use of chalk burnt in a small covered crucible with the fiercest fire of a Black-smith's forge, for half an hour, and found it necessary to employ, for this purpose, a crucible of the Austrian kind, which resemble black lead."

When the thesis was published, Black sent copies to his father and to Cullen. To the latter he wrote: "The truth is, I was quite tired of it before I gave it out of my hands."

### Theory Opposed

"The style through the whole is excessively dry and awkward, but my subject did not allow much elegance; and, though it had, I confess myself so imperfect in the Latin, that I really could not have attempted to beautify it. I perceive that the Professors here think my experiments new, and seem pleased with them. . . ." His theory soon became known to German chemists, among whom it met with strong opposition. Dr. Meyer of Osnaburg thought that there was an *acid umpingue*, formed in lime during calcination and consisting of igneous matter in a certain inexplicable combination with other substances.

In 1756 Black was appointed professor of anatomy and lecturer in chemistry at Glasgow. When in 1766 he was appointed to the chair of chemistry at the University of Edinburgh, his mind, Robison states, was forcibly impressed by the importance of his duties. "This had the effect . . . of directing his whole study to the improvement of his scholars in the elementary knowledge of chemistry. He saw too many of them with a scanty stock of previous learning. He had many from the workshop of the manufacturer, who had none at all." However, Black did carry out further work on alkalis and on latent heat (he invented an ice calorimeter and the practical importance of his discovery of latent heat was at once recognised by James Watt). Black never married, and died at the age of seventy-one on November 26, 1799.

# A MODERN COURSE OF PHOTOGRAPHIC STUDIES

By

H. BAINES, D.Sc., F.R.I.C., F.I.B.P., HON. F.R.P.S.

## 5. COLOUR SENSITIVITY AND FILTERS

WHEN we look at a spectrum produced by passing white light through a glass prism, the various colours do not appear equally bright. The yellow-green in the centre of the spectrum looks brightest, and the remaining colours become progressively dimmer as we approach the extremes of the spectrum.

If we were to photograph the spectrum on an "ordinary" (non-colour-sensitised) material, only the blue end of the visible spectrum would affect the material, but in addition the material would respond to the ultra-violet rays to which the eye is quite insensitive, beyond the blue end of the spectrum.

It is therefore clear that the degrees of luminosity of the various colours of the spectrum are very different when recorded by the eye and by a non-colour-sensitised photographic material. As an example, an orange on a dark blue plate appears to the eye to be a light object on a dark background, but a photograph taken on an "ordinary" material would show a dark object on a light background, since the material is insensitive to orange but fully sensitive to blue. When photography is used with the object of producing as accurate a reproduction as possible of an original view, this difference between the eye and the photographic material in interpretation of the luminous values of colours constitutes a defect which should, if possible, be eliminated. That was recognised in the days of the wet-collodion plate, and one of the critics who in 1873 made an outstanding contribution towards the solution of the problem was H. Vogel of Berlin. Since that date, it has been possible to exercise a considerable degree of control over the way in which colours are rendered in monochrome photography. The luminosity value with which a particular colour is rendered in a black-and-white photograph clearly depends on two factors: (a) the sensitivity of the material to that colour, relative to other colours, and (b) the intensity of the colour, relative to other colours. Those factors can be independently controlled by two techniques: (a) colour sensitising and (b) the use of colour filters.

### *Colour Sensitivity of Photographic Materials*

In his study of the colour sensitivity of photographic materials, Vogel recognised that the several silver halides differed in this respect. While silver chloride is sensitive to the ultra-violet and violet only, the sensitivity of silver bromide extends to the blue. The greatest range of sensi-

tivity, however, is obtained by admixture of a small proportion of silver iodide with silver bromide, the resulting emulsion being sensitive throughout the blue to the blue-green. In 1873, Vogel was fortunate in discovering, by accident, a means of extending the sensitivity of emulsions to longer wave-lengths. In comparing the colour sensitivity of commercial materials, he noticed that some dry collodion plates obtained from England were more sensitive to green light than any others previously tested. Those plates incorporated in the emulsion a yellow dye with the object of reducing halation, and Vogel correctly deduced that the dye had sensitised the emulsion to longer wave-lengths. Although Vogel's observation and deduction were not generally accepted, and gave rise to considerable controversy, further experiment was stimulated, and new sensitising materials were discovered by other workers. The most important of the early sensitising dye-stuffs was erythrosin, discovered by Eder and commercially applied in 1884. So successful was that dye that it was used almost exclusively as a green sensitiser for close on fifty years, and still has a limited use today.

Until the early part of this century, the added sensitivity did not extend beyond the green, and emulsions so sensitised were called "orthochromatic," implying that, relative to unsensitised emulsions, they gave "correct colour rendering" in monochrome. They certainly represented a marked improvement and, as they were still insensitive to orange and red, they could be handled in red safelight.

Although comparatively few successful sensitising materials were known before this century, many materials were recognised as imparting sensitivity, though they were unusable because of other undesirable characteristics. Among them was a basic dyestuff known as cyanine, which was recognised as a sensitiser by Vogel. In 1901, certain related dyes of the cyanine group were found to be most successful as sensitising materials. Since that date the cyanine dyes have established themselves as the pre-eminently important dyestuffs in the sensitising field. Before the 1914-18 war, Germany was practically the sole source of cyanine sensitising dyes, but the war stimulated production in this country and in the United States.

The first dye to impart sensitivity to the whole visible spectrum was produced in Germany before 1910, and such dyes have become known as "panchromatic." Since that date intensive work has produced a range of sensitising materials imparting high sensitivity to any desired part of the visible spectrum, and to the infra-red as far as 10,000A. The earliest "pan" dyes gave emulsions that were relatively insensitive in the green part of the spectrum, and a dim green safelight, which gave maximum visibility with minimum fogging effect, could be used. Most modern panchromatic materials, however, are so sensitive to all visible radiations that no light is safe, and they must be handled and processed in complete darkness.

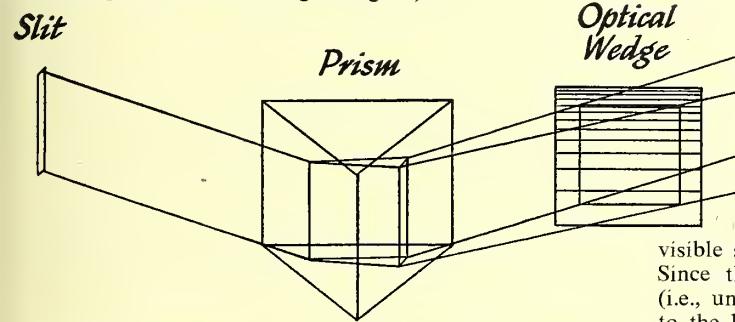
### *Extension of Sensitivity into the Ultra-violet*

For certain purposes it may be necessary to study the image produced by ultra-violet radiation, as for example in u.v. microscopy or in spectrography. There is fortunately no need to extend by colour sensitising the sensitivity of silver halide in the direction of shorter wave-lengths, since it is sensitive, so far as we can ascertain, without a break to the shortest waves of which we have cognisance. In normal use, however, an emulsion records only to 3,600A, shorter wave-lengths than that being absorbed by the glass of the lens or prism forming the image. The substitution of quartz for glass allows free transmission of u.v. rays below that wave-length, and the sensitivity is then extended to 2,200A, below which the gelatin of the emulsion absorbs in the u.v. Sensitivity below that wave-length is achieved by making emulsions that are virtually gelatin-free, or by incorporating a fluorescent material which converts the lower wave-lengths to higher wave-lengths that affect the emulsion. Extension of the usefulness of an emulsion into regions of

shorter wave-lengths is thus not a question of sensitising silver halides to those radiations (e.g., by sensitising dyes), but of removing those constituents of apparatus and emulsion (glass and gelatin) that prevent the short u.v. rays from reaching the silver halide.

### Spectrograms

The colour sensitivity of a photographic material can be assessed by exposing the material in a spectrograph—an apparatus which throws a white light spectrum on to the material, together with calibration figures in terms of wave-lengths. For absolute results, the light should be such that all wave-lengths are of equal energy—an "equal energy" spectrum—but for purely comparative purposes it is usual to use half-watt lighting. On processing the material, the image and the calibration wave-length markings would indicate the range of colour sensitivity. By exposing the material in the spectrograph immediately behind a graduated optical wedge in which the density variation is at right angles to the spectrum, it is possible to assess the relative sensitivity at various wave-lengths by the height of the image at each wave-length (Fig. 19).



The resulting processed image is called a "wedge spectrogram," and Fig. 20 shows spectrograms of typical emulsions. Since half-watt light is much richer in the longer wave-lengths than daylight, or equal-energy light, the height of the image at the red end of the spectrum is greater than it should be, relative to the blue end, but that is not a serious matter if one uses spectrograms merely for comparative purposes. One can calculate and draw, from a normal spectrogram and from the relative intensities of the constituents of half-watt light, the spectrogram that would be obtained by using an equal-energy spectrum, and it will be found that, even in the most highly colour-

sensitive material, we have not yet succeeded in producing an added sensitivity at any wave-length that is as high as the original sensitivity in the violet.

### Use of Light Filters

Although much progress has been made in extending the sensitivity of silver halide emulsions to longer wave-lengths by means of sensitising dyes, there is no known method of simultaneously eliminating, or even seriously modifying, the initial sensitivity to the ultra-violet and the blue. One can, however, eliminate or reduce the effect of those wave-lengths—or indeed of any wave-length—by absorbing completely or partially the wave-lengths themselves by means of appropriate light filters.

A light filter is a non-scattering layer that absorbs some of the light falling on it and transmits the remainder. If the filter absorbs all wave-lengths equally it will be neutral grey in colour. If it absorbs some wave-lengths of the

### Sensitive Material

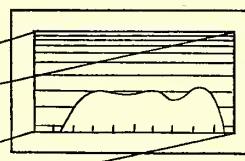


Fig. 19. Spectrograph (diagrammatic representation).

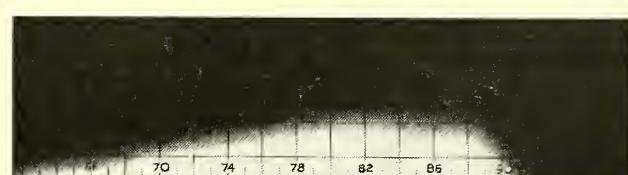
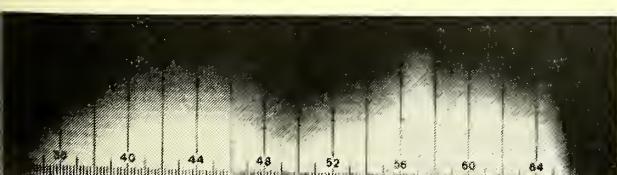
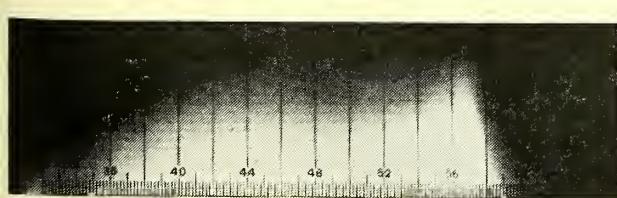
visible spectrum more than others, it will appear coloured. Since the colour of the filter is due to the transmitted (i.e., unabsorbed) light, it will be complementary in colour to the light absorbed. Thus a filter that absorbs blue light will be yellow in colour; one that absorbs red will appear blue-green. Modern photographic practice demands a wide range of light filters absorbing wide or narrow bands in various parts of the spectrum, according to particular requirements, and the manufacturers market a wide range of photographic filters, so that, whatever the task for which a light filter is required, there is almost certainly a filter on the market that can be successfully applied.

### General Properties of Light Filters

The light filter has to be inserted in the path of the light falling on the photographic material in the camera. The most convenient position for insertion is near the lens, since, apart from other advantages, the area of filter required is smaller than in other positions. As it has preferably to be easily affixed and removed, it is generally used in a metal mount that can be screwed or pushed on to the front of the lens.

Light filters usually take the form of tinted glass or dyed gelatin mounted between two flat glasses. In order to avoid deterioration of image quality, the optical properties of the filters, apart from their selective absorption, must be of a high order. These properties become more critical with increase in focal length and in aperture, and filters are usually marketed in two or three grades, selected plate-glass being suitable for short-focus lenses as used in amateur photography, and higher-quality optically worked

Fig. 20. Spectrograms of typical Ordinary, Ortho, Pan and Infra-red materials: (a) B 40 plate; (b) O 800 plate; (c) P 1200 plate; (d) I.R.E.R. The wave-length figures represent units of 100 Å.



glass being used for more critical requirements such as telephotography or photomechanical work.

### Correction Filters

Fig. 21 shows the relative sensitivity of the eye and of a modern panchromatic film to an equal energy spectrum. It will be apparent that, although colour-sensitising has ren-

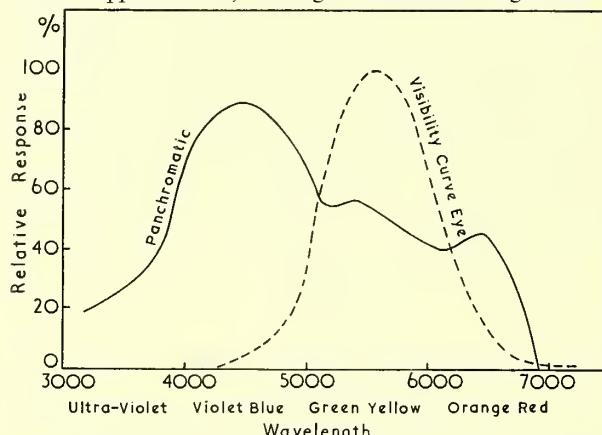


Fig. 21. Sensitivity curves of the eye and of pan film to an equal energy spectrum.

dered the emulsion sensitive to all the colours to which the eye is sensitive, and has thus given a great improvement over non-colour-sensitive materials, there is still a great disparity between the relative sensitivities of the panchromatic material and of the eye to different colours. The main difference between the two lies in the excessive sensitivity of the material to the u.v. and blue, causing blue objects to be rendered too light in a print. The main object of a "correcting filter," designed to give in a print the same luminosity to colours as that of the eye, is to eliminate the u.v. and diminish the amount of blue light, and that is done by means of a u.v.-absorbing pale yellow filter. Many such filters are marketed giving different degrees of correction, examples being the Kodak Wratten No. 8 (K2) and No. 9 (K3) filters, and Ilford Chromatic Nos. 1, 2 and 3. Even better correction is obtained by decreasing at the same time the amount of red light, so that the relatively higher red sensitivity of photographic materials is effectively subdued. Such filters are yellow-green in colour, and examples are Wratten No. 11 (X1) and Ilford beta and gamma filters. Comparison landscapes taken on "ordinary" film, pan film, and pan film with correction filter shows a transition from dark, rather featureless foregrounds, and blank white skies to lighter, more detailed foregrounds and darker skies with the white clouds well differentiated.

Portrait photography is usually practised under tungsten lighting, and since that lacks blue compared with daylight, the use of pan film without a filter gives optimal results. Portraits taken on ordinary or weakly orthochromatic materials render lips too dark and blue eyes too light, so that the sitter tends to appear sightless. The main defect, however, is that skin blemishes such as freckles, which are reddish in colour, are accentuated by being registered too dark. On the other hand, over-correction (see later) gives bloodless lips, dark button eyes, and a featureless waxy skin.

### Over-correction

By the use of deep yellow or red filters, one can continue the suppression of the blue end of the spectrum, so that those colours are rendered darker in the print than their visual tone values, and the yellows and reds correspondingly too light. Dramatic pictorial effects may thus be produced by accentuating unduly certain landscape features, and rendering clouds as stark white against

a midnight sky. Slight over-correction, moreover, is sometimes useful for giving differentiation between a landscape feature (for example a yellow sunlit building) and a background sky. Extreme over-correction is represented by the use of infra-red-sensitive materials together with a filter that eliminates the u.v. and blue to which the material is also sensitive.

Atmospheric effects, such as mist, haze and industrial fog, are caused by the scattering of light by minute particles of water or solid matter. As shorter wave-lengths are more readily scattered than longer wave-lengths, atmospheric haze tends to disappear from photographs as one passes from the use of "ordinary" materials through colour-corrected and over-corrected systems to infra-red photography.

A colour filter functions by absorbing some of the light to which a material is sensitive. The exposure required to produce a correctly exposed negative must consequently be increased by a factor which is called the "filter factor." It should be emphasised, however, that, contrary to popular misconception, a filter has no specific filter factor—the appropriate factor depends on various conditions apart from the filter itself. For example, a yellow filter will require much less increase in exposure if used in conjunction with a panchromatic film that is highly sensitive to the transmitted yellow than if used with an "ordinary" (blue-sensitive) material. Again, the increase in exposure with a given material will be less if the view is illuminated by yellowish (e.g., tungsten) lighting than by bluish (e.g., daylight) lighting.

Thus the filter factor of a filter is significant only if the type of lighting (daylight or tungsten) and the sensitivity of the material (ordinary, ortho or pan) are specified. Where they are not specified, it is usual to assume that the filter is to be used with pan material in daylight.

### Contrast Filters

So far, we have considered correction filters (sometimes called "orthochromatic" filters), whose main function is to produce a photograph in which colours have the same luminosity value as they present to the eye.

Filters are also largely used deliberately to falsify such tone values, when occasion demands. While the eye can recognise colour contrast as well as brightness contrast, the black-and-white print can differentiate only by the latter. The detail on a stained microscope specimen, or the lettering on a poster may be discernible only because of colour difference. Red lettering on a green background of the same luminosity would record on a fully corrected film as a uniform grey, and to meet that situation it may be considered preferable to sacrifice truth in tone values in order to bring out detail (viz., the lettering). A pan film with a red filter would cause the red to appear lighter, and the green darker, on a print than their true visual luminosity values, and hence give quite legible light printing on a dark background. Alternatively an ortho film without filter would give a print with dark lettering on a light background. Filters so used are generally called "contrast filters." Detail in any one colour is usually enhanced by rendering the colour light on a print, i.e., by using a filter of the same general colour as that which is being photographed. For example, in photographing furniture, it is usually desirable to give emphasis to details of marquetry, parquetry or wood grain pattern. Photographs on ordinary or ortho material render the furniture too dark and lacking in detail. A pan film with correcting filter shows the grain or pattern as the eye sees it, but often a more pleasing effect can be produced by photographing the reddish or brown wood with a deep yellow or red filter which accentuates the pattern of the wood surface.

On other occasions, it may be desirable to suppress an undesirable pattern, and that may also be achieved by the judicious use of filters. A white paper, with printing in

two different colours (e.g., red and blue) may be copied so as to delete one of the printings by the use of appropriate filters. A deep-red contrast-filter with pan film, for example, would give a copy print in which the red lettering is rendered so light as to be indistinguishable from the white background, leaving only the blue lettering in bold relief, and conversely copying on an ordinary (blue-sensitive) material would eliminate the blue printing. The success of such differentiation will of course depend on the separation of the colours. While it is easy to separate red from blue, it is less easy to separate completely red from yellow.

In copying paintings, the most faithful reproductions are obtained by using full colour correction, but often old paintings have lost much of their original detail, and colour values have in the course of time been falsified by a brown discolouration of the varnish. The use of a deep yellow filter tends to eliminate that discolouration, show up detail not easily visible to the eye, and give a result in which the colour luminosities approach more nearly the picture as originally painted.

Often old documents and prints are disfigured by brown stains. If the original ink is black or bluish in colour,

the stain may be eliminated in a copy while preserving the printing unimpaired by the use of a filter that transmits only the light reflected by the brown stain (e.g., a deep yellow or red filter). Alternatively, if ink has faded to a brown colour, it may be recorded as black by the use of a complementary (blue) filter, or its equivalent, the use of "ordinary" (blue-sensitive) materials.

The applications of contrast filters are legion, and only one or two typical examples have been mentioned. The appropriate filters may be deduced by remembering the principle that a filter of the same general colour as a portion of a view renders that portion lighter in the print, and shows up detail in that portion. In the extreme case it may be rendered so light as to be indistinguishable from a white background, and so eliminated. A filter complementary in colour renders the portion darker and suppresses detail. In the extreme case, it may be rendered uniformly black.

Finally, another most important and fundamental use of filters is in colour photography, when trichromatic filters are used to record separately the red, green and blue constituents of views, but that aspect will be dealt with in a later article.

## *A Chartered Accountant gives answers to ANY BUSINESS QUESTIONS?*

*So far as I can understand, a gift made in consideration of marriage would be exempt from estate duty, but if I die within five years of making the gift, my wife would be liable after all. Incidentally, what is meant by "a gift made in consideration of marriage." Could I make a gift to my daughter or any other person so as to give them possible exemption?*

A GIFT made in consideration or contemplation of marriage refers to the marriage of the donee and would, of course, include an intended spouse but is not restricted to her or any relative or in amount. Provided it is a *bona fide* outright gift made in contemplation of an actual marriage, the gift is exempt from duty no matter how soon the deceased died after it was completed. The five-year period has no application and the recipient no liability.

*We have an unclaimed balance which has been standing to the credit of a customer with whom we have had no dealings for some time. We are not sure whether we can write off the liability and treat it as a profit. Presumably we should then have to pay tax on it.*

AFTER the expiration of six years, the debt becomes "statute-barred"—that is, an action for its payment cannot be brought and the balance is justifiably transferred to profit-and-loss account and distributed. It might be supposed that, since a customer's account on proving bad is allowable as a bad debt, any unclaimed credit balance would be assessable. However, that is not the case, and the credit on the profit-and-loss account so taken would be deducted as a capital gain from the profits set out in the tax computation.

*My wife, myself and a third party are partners in a small business but we have not entered into any formal agreement. What would be the position of the other two if any one of us were to die? Would you advise us to draw up a partnership deed?*

DEATH, unless otherwise expressly agreed, may automatically bring about the dissolution and winding-up of the business. If it is desired specifically to avoid discontinuance resulting from the death, an agreement (which may be in writing and not necessarily under deed) should certainly stipulate that. It should be remembered, too, that bankruptcy of a partner, unless otherwise agreed, may also lead to the termination of the business. It is not clear whether you have already entered into any agreement in writing but, if not, it is desirable to do so at the earliest opportunity. An existing agreement can, of course, be extended or modified as required.

*The new investment allowances which the Chancellor of the Exchequer introduced in his Budget apply to industrial buildings. What exactly does this mean? Do shop premises obtain the benefit? What does "machinery and plant" cover? Does a new typewriter qualify for an investment allowance?*

THE Finance Bill provides that the investment allowances are to be made instead of the initial allowances previously made in respect of expenditure on the construction of an industrial building or structure. Broadly, that refers to buildings or structures used as factories and similar premises, or premises for the purpose of processing any goods or materials, or for storage purposes in connection with the trades or processes carried on in connection with factories. Retail shops, showrooms and dwelling-houses do not qualify. Offices, too, may be excluded.

New plant or machinery (which includes furniture, etc.) obtains the allowance, but that need not be confined to "industrial" purposes. A typewriter would therefore rank for allowance. Motor-cars capable of being used as private vehicles are expressly excluded.

*I have a car which I use for my business and which will have to be replaced very shortly with a new one. Can you give me any information concerning income-tax allowances for it?*

ALLOWANCES in respect of cars used in a business are two-fold. An annual allowance is granted in each year at a rate equivalent to 25 per cent. on the cost, and thereafter on the reducing balance brought forward. In addition, an initial allowance of 20 per cent. is given on the actual capital expenditure laid out in the period being assessed to tax. The allowances are, of course, restricted proportionately where the car is used at all privately. If no records of mileage and private use have been kept, the inspector of taxes may agree to a reasonable percentage reduction from the total allowances computed.

Allowances were no doubt taken on the old car. Should the sale price show an excess or deficit over the value standing for tax purposes, the Inland Revenue will have over or under-allowed in respect of wear and tear. That will require an adjustment called a balancing charge or balancing allowance. The balancing charge, it should be noted, may be included with the year's assessment or deducted from the cost of the new car (so spreading the deficit over the next few years by reduction of the annual allowances). Full allowances are given during any year, notwithstanding that the car was in use for only a few days or months, and some apportionment is necessary only if the trade itself was carried on for a part of a year.

## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 9: The price of domestic TARTARIC ACID has been increased by 10s. per cwt. because of higher raw material costs. The acid had been without quotable change since February 1953 during which month it was reduced by a similar amount. CITRIC ACID continues in tight supply with a heavy seasonal demand.

The new schedule for minor IODIDES given below reflects the lower costs of iodine announced about a month ago.

The CRUDE DRUGS market was affected by the holidays and prices were scarcely tested. Exceptions, however, were provided by IPECACUANHA and GINGER. Supplies of Ipecacuanha are extremely scarce on the spot and there are no primary offers for shipment. A report that stocks of Jamaican GINGER at origin were almost exhausted caused a run on stocks here and the price asked for the No. 3 variety rose to 230s. per cwt. against 220s. in the week previously; forward offers were correspondingly dearer at 220s., c.i.f. African ginger, however, was unchanged. Madras TURMERIC was dearer for shipment, but PEPPER from all sources was in the doldrums and values of all varieties fell substantially.

ESSENTIAL OILS were likewise affected by the holidays and prices showed no change over the previous week with the exception of Ceylon CINNAMON LEAF which was slightly dearer.

### UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, JUNE 8.—With shipments sustained and output restricted in some lines, U.S. HEAVY CHEMICALS showed a firm price tone, an advance being noted in GLAUBER'S SALT. Improved demand was noted in the CRUDE DRUGS market. Imported powdered CAMPHOR at 60 cents was up five cents per lb. Lower per lb. were GUM ARABIC, amber sorts, at 17½ cents (down one-half cent); and AGAR, Kobé No. 1, at \$3.25 (25 cents).

The market in ESSENTIAL OILS continued to show a strong tone in some commodities. Higher per lb. were Ceylon CITRONELLA at 80 cents (up five cents); artificial SASSAFRAS, 85 cents (five cents); and CEDARWOOD, 75 cents (five cents). Lower per lb. were natural PEPPERMINT, at \$5.60 (down 15 cents), and redistilled PEPPERMINT, \$6.00 (10 cents); Bourbon GERANIUM, \$10.65 (20 cents); CLOVE LEAF, \$1.50 (five cents); CELERY, \$15.00 (25 cents); and CARDAMOM, \$40.00 (\$2).

The current prices of a number of PHARMACEUTICAL CHEMICALS (f.o.b., New York) are:

	Cents per lb.
Acetone	11.00
Guaiacum resin	34.00-36.62
Hexamine	23.25
Magnesia, calcined	32.00-32.75
DDT	27.00
Sodium bromide	34.00-35.00
Camphor, synthetic	54.00
Glycerin, pure	33.50
Penicillin procaine in bulk, per mil- lion units.	8.5 to 9 cents.

### Pharmaceutical Chemicals

AMIDOL.—Quotations for 1-cwt. lots are 17s. per lb.; 14-lb., 19s. per lb.

ASCORBIC ACID.—The following are the current prices (per kilo) for British material:—1 kilo, £9 0s. 6d.; 10 kilo, £8 14s.; 100 kilo, £8 8s.

ASPIRIN.—Prices are as follows:—5-cwt. lots, 4s. 6d. per lb.; 1-cwt., 4s. 6½d.; 28-lb., and under 1-cwt., 5s. 4d.

CHALK.—In minimum 1-ton lots powder is £21 and cones, £22 10s. per ton.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. per lb., in 1-cwt. drums.

CHLOROFORM.—1-cwt. lots in winchesters are 3s. 6d. per lb.; 56-lb., 3s. 6½d. In drums, prices are 3s. 4d. and 3s. 4½d.

CINCHOPHEN.—1-cwt. lots are quoted at 21s. per lb.

CYCLOBARBITONE.—B.P.C. and CALCIUM DERIVATIVES in 1-cwt. lots are 65s. per lb.

IODIDES.—The new prices for minor iodides are given below:—

IODIDE	per lb.	Quantity
AMMONIUM	19 6	28 lb.
ARSENIC TRI-	45 0	28 lb.
CADMIUM	20 6	28 lb.
CALCIUM (PLATES)	20 9	7 lb.
ETHYL	25 0	28 lb.
IRON	22 0	7 lb.
LEAD	21 0	7 lb.
LITHIUM	26 6	28 lb.
STRONTIUM	21 0	28 lb.
ZINC	26 3	7 lb.

ISOPRENALE SULPHATE.—B.P.C. is 2s. 4d. per gm. for 100-gm. lots.

LACTOSE.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks is £137 per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals are 180s. per cwt. and technical, 160s.

MENAPHTHONE.—B.P. is £16 per kilo; ACETOMENAPHTHONE, B.P., £16; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), £19 10s. per kilo.

METHYL SALICYLATE.—In 5-cwt. lots price is 3s. 1½d. per lb.; 1-cwt., 3s. 2d.; 56-lb., 3s. 2½d.

NICOTINAMIDE.—Prices per kilo are: 1-kilo, 113s.; 50-kilos, 105s.

NICOTINIC ACID.—Prices per kilo are 78s. for 1-kilo and 70s. for 50-kilo lots.

OPIATES.—Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows:—CODEINE.—alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2.063s. per kilo); hydrochloride, 51s. 3d. (1.808s.); phosphate, 44s. 9d. (1.578s.). DIAMORPHINE.—Alkaloid, 60s. 3d. per oz. (2.125s. per kilo); hydrochloride, 54s. 9d. (1.931s.). ETHYL-MORPHINE.—Alkaloid, 63s. per oz. (2.222s. per kilo); hydrochloride, 53s. 9d. (1.896s.). MORPHINE.—Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2.134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. (1.773s.).

PHENYTOIN SODIUM.—Quotations for 1-cwt. lots are 25s. per lb.

POTASSIUM PERMANGANATE.—Rates for B.P. material for 1-cwt. lots is 1s. 8½d. per lb., and for technical, 181s. 6d. per cwt.

QUININE.—Makers' rates (per oz.) for 100-oz. lots and over are as follows:—ALKALOID, 3s. 10d.; ACETYL SALICYLATE, 5s. 4d.; BISULPHITE and SULPHATE, B.P. 1932, 2s. 8d.; SULPHATE, B.P. 1948, 3s.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 3s. 10d.; FORMATE, 4s. 8d.; GLYCERO-PHOSPHATE, 4s. 5d.; PHOSPHATE, 4s. 4d.; HYDROBROMIDE and HYDROCHLORIDE, 3s. 5d.; SALICYLATE, 3s. 11d.; QUININE and UREA HYDROCHLORIDE, B.P.C., 4s. TANNATE, 2s. 7d.

ROCHELLE SALT.—Rates (per cwt.) for powder or granulated material are as follows: In 5-cwt. lots or over, 180s. per cwt.; 1-cwt., 182s. 6d. SEIDLITZ POWDER ordinary strength is 144s. per cwt. in 1-cwt. lots; smalls, from 1s. 9½d. to 2s. 0½d. per lb. Extra-strong is 155s. per cwt., and from 1s. 10½d. to 2s. 1½d. per lb. for small quantities. Double-strength is 161s. per cwt.; smalls, 1s. 11½d. to 2s. 2½d. per lb.

SACCHARIN.—In lots of 1-lb. and over B.P.C. powder is quoted at 99s. 10d. per lb., the SODIUM SALT is 80s. 10d. per lb. Prices include duty and carriage.

SODIUM PERBORATE.—Prices (per cwt.) are 142s. 9d. in 1-cwt. kegs; 135s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 305s. 3d. per cwt.

SULPHATHIAZOLE.—Price (per lb.) for 1-cwt. lots is 21s. 9d.

TANNIC ACID.—B.P. (ex ether) is quoted at 4s. 9d. per lb. in 1-cwt. lots.

TARTARIC ACID.—Rates for the home trade are now as follows:—10-cwt. lots, 220s. per cwt.; 5-9-cwt., 222s.; 24-cwt., 224s.; 1-cwt., 225s.

TERPINEOL.—Prices of B.P. grade are from 3s. to 3s. 6d. per lb., as to quantity.

ZINC PEROXIDE.—Price (per lb.) for 1-cwt. lots of B.P. is 5s. 3d.

### Methylated Spirits

METHYLATORS' rates per gall. in Great Britain are as follows:—

*Industrial methylated spirit:* Strength 61 o.p., 500 gall. and over in one delivery, 4s. 9½d.; 100 gall. and under 500 gall., 5s. 0½d.; 30 gall. and under 100 gall., 5s. 3½d.; 10 gall. and under 30 gall., 5s. 6½d.; 5 gall. and under 10 gall., 5s. 9½d. Strength 64 o.p., 1d. per gall., 66 o.p. (B.P.), 2d., 68 o.p., 2½d. more than the above rates with 74 o.p. from 4½d. to 9d. more according to quantity. Tank wagon delivery is 1½d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 5s. 4d. for 500 gall. to 6s. 2½d. for 5-10 gall. of 61 o.p.

*Pyridinised industrial methylated spirit:* Strength 61 o.p., 500 gall. and over, in one delivery, 5s. 0½d.; 100 gall. and under 500 gall., 5s. 3½d.; 30 gall. and under 100 gall., 5s. 6½d.; 10 gall. and under 30 gall., 5s. 9½d.; 5 gall. and under 10 gall., 6s. 0½d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

*Mineralised methylated spirit:* Strength 61 o.p. in one delivery, 100 gall. and under 500 gall., 5s. 5d.; 30 gall. and under 100 gall., 5s. 8d.; 10 gall. and under 30 gall., 5s. 11d.; 5 gall. and under 10 gall., 6s. 2d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

*Methylated resin finish* is 3d. per gall. over, and *methylated shellac finish* 1s. per gall. over the prices for pyridinised methylated spirit.

TERMS:—Delivered free and carriage paid on returned empties; net cash one month.

**Crude Drugs**

ACONITE. — Spanish napellus is 3s. 6d. per lb., duty paid, ex wharf.

AGAR. — *Kobé* No. 1 on the spot is 17s. 6d. to 18s. per lb. Shipment, 15s. 9d., c.i.f.

ALOES. — Prime Cape, spot market cleared; shipment, 180s. per cwt., c.i.f., nominal. *Curaçao* is 305s. on the spot and 290s., c.i.f., for shipment.

ANTIMONY. — English 99.6 per cent., £222 10s.; 99 per cent., £210 per ton.

ARECA NUTS. — Quotations are about 45s. per cwt. for Ceylon material on the spot. Shipment, 42s. 6d., c.i.f.

BALSAMS.—Quotations (per lb.) are:—  
*Canada*: 21s. 6d. spot. *Copaiba*, B.P. from 11s. 6d. to 12s. 6d. per lb. as to source. *Peru*, 9s. in bond. *Tolu* (genuine as imported), is offered at 25s., spot.

BISMUTH METAL.—Minimum rate is 16s. per lb.

CALUMBA. — Ordinary natural sorts are quoted at 90s. per cwt. on the spot.

CAPSICUMS.—East African on stalk are 160s. per cwt. spot. *Abyssinian*, off stalk, 175s., spot.

CARDAMOMS. — Aleppy greens are 15s. per lb. on the spot; prompt shipment offers are 13s. 6d., c.i.f. and new-crop (September-October), 11s., c.i.f.

CASCARA SAGRADA. — Offers for prompt shipment are 275s. per cwt., c.i.f.; spot supplies are 320s., duty paid. Offers of new-crop are unchanged at from 255s. to 260s., c.i.f.

CASSIA BARK. — Whole on the spot is about 90s. per cwt. in bond, and for forward delivery, 78s., c.i.f. Broken 78s., in bond, and 66s., c.i.f.

CHAMOMILE. — Belgian flowers are 5s. to 5s. 6d. per lb. on the spot.

CHERRY BARK. — Thin natural is from 1s. 8d. per lb., duty paid, and rossed, 2s. 1d., on the spot.

CINNAMON.—Ceylon for shipment (c.i.f.), per lb.; OOOO, 4s.; OOO, 3s. 11d.; OO, 3s. 10d.; O, 3s. 9d.; firsts, 3s. 1d.; seconds, 3s.; thirds, 2s. 11d.; quillings, 2s.; featherings, 1s. 1½d.; chips, 6d. to 6½d.

CLOVES.—Quiet. *Zanzibar* on the spot are 4s. 5d. per lb.; prompt shipment, 4s. 1½d., c.i.f.

GALANGAL.—Root is quoted at 80s. per cwt., c.i.f., for shipment.

GENTIAN. — French natural on spot is firm at 105s. per cwt.

GINGER. — African on the spot is unchanged at 195s. per cwt. with new crop offers at 195s., c.i.f. Jamaican No. 3 is 230s. on the spot and 220s., c.i.f.

GUM ACACIA. — *Kordofan* cleaned sorts on the spot are quoted at 135s. per cwt. Forward shipment, 126s., c.i.f.

HENNA.—Indian is 105s. and Egyptian, 130s. per cwt. on the spot.

HONEY.—Quiet. Australian light-amber is offered on the spot at 103s. to 110s. per cwt., medium-amber, 95s. to 100s. Argentine is from 115s. to 120s. and Jamaican, 120s. to 130s.

HYDRASTIS.—Root is 18s. per lb., on the spot.

IEPECACUANHA. — Spot market bare. A parcel of Nicaraguan afloat was sold at 64s. per lb. No primary shipment offers from any source. Second-hand sellers of *Matto Grosso* reported at 55s., c.i.f.

KARAYA. — No. 1 gum on the spot is quoted at 265s. per cwt. and No. 2 at 170s.

KOLA NUT. — African halves are available on the spot at 5½d. per lb.

LOBELIA.—Herb is quoted at 3s. 6d. per lb. on the spot.

MERCURY.—Nominal spot value is £90 per flask (76-lb.), ex warehouse.

ORANGE PEEL.—Bitter quarters, Spanish quoted at 1s. 10d. and West Indian at 1s. 1d. per lb. on the spot. Bitter ribbon 1s. 2d.

PEPPER. — White Sarawak is easier at 5s. 4d. per lb., spot, with June shipment, 4s. 1d., quoted, c.i.f. Black Sarawak is down to 4s. 6d. spot and June shipment, 2s. 11½d., c.i.f. Black Malabar, 520s. per cwt., spot; 390s., c.i.f. June shipment.

PIMENTO. — Jamaican is quoted on the spot at 4s. 3d. per lb.

PODOPHYLLUM.—*Peltatum* is 336s. per cwt. on the spot. *Emodi* is 140s.

QUASSIA. — Jamaican is 33s. per cwt., c.i.f., nominal.

RAUWOLFIA (SERPENTINA).—Spot supplies are nominal; shipment offers withdrawn.

RHUBARB.—A parcel of Shensi is offered at 10s. 6d. per lb. Sound rough round almost unobtainable on the spot and no offers for immediate shipment from origin.

SAFFRON. — Mancha superior is about 152s. and selecta, 149s. per lb.

SEEDS.—(Prices per cwt.): ANISE.—Spot, Cyprian, 165s., Bulgarian, 130s., in bond. CARAWAY.—Dutch offered at 145s., duty paid (117s. 6d., c.i.f.), London. CELERY.—Indian offering at 185s. spot. New crop for June-July shipment, 130s., c.i.f., London. CORIANDER.—Spot Moroccan offering at 60s., duty paid (55s. in bond); English, 72s. 6d., nominal. Shipment: Moroccan, new-crop, 52s. 6d., c.i.f., for July-August shipment. CUMIN.—Spot: Cyprian, 125s.; Moroccan, 125s., duty paid. Shipment: (new crops) Cyprian, 112s. 6d. to 115s.; Moroccan, 112s. 6d., both c.i.f., for July-August shipment.

DILL.—Indian is offered at 87s. 6d., spot London. FENNEL.—Quiet with no business passing on spot, Indian is 95s. 6d. and Chinese, 85s., duty paid. FENUGREEK.—Moroccan is offering at 47s. 6d., duty paid. MUSTARD.—English 65s. to 87s. 6d., according to quality.

SENNA.—*Tinevelly* LEAVES, (per lb.) prime No. 1, 10½d. to 1s. 1d., as to crop; prime No. 2, 9d. to 11d.; prime No. 3, 7d.; f.a.q., No. 3, 6d.; PODS, f.a.q., 6½d.

hand-picked, 1s. 4d. to 2s. *Alexandrian* manufacturing pods, 1s. 10d., spot and 1s. 7d., c.i.f.; No hand-picked spot or forward.

SHELLAC.—Spot quotations are:—

F.O.T.N. pure, 282s. 6d.; F.O standard

No. 1, 297s. 6d.; fine orange, 320s. to 365s. per cwt., ex-London warehouse.

SQUILL.—Italian white on the spot is 70s. per cwt. nominal. No. 2 is about 60s., no offers of white from origin.

STRAMONIUM.—Indian LEAVES are 5½d. per lb., spot and European, 97s. 6d. per cwt.

STROPHANTHUS.—*Kombé*, 100 per cent. is about 10s. per lb., on the spot, and *Gratus*, 17s. 6d.

STYRAX.—Spot is 5s. 9d. per lb., duty paid.

TAMARINDS.—Supplies of West Indian are offered at 50s. per cwt., duty paid.

TONKA BEANS.—Frosted Para on the spot are offered at 6s. per lb. No shipment offers.

TRAGACANTH.—No. 1 ribbon on the spot is £105 per cwt.; No. 2, £85; No. 3, £65.

TURMERIC.—Madras finger on the spot is quoted at 155s. per cwt.; June shipment, 130s., c.i.f., quoted. *Rajapore*, 150s., spot.

UVA URSI.—Spot offers are about 85s. per cwt.

VANILLIN.—Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d. per lb.

**Essential and Expressed Oils**

ANISE. — Spot supplies are scarce and firm at 9s. 9d. per lb. Shipment price quoted at 9s. 4½d., c.i.f.

CAMPHOR, WHITE. — Chinese is 3s. 6d. per lb., on the spot.

CARAWAY. — English-distilled is offered at 45s.; imported oils are from 21s. 6d. per lb.; early shipment.

CARDAMOM.—Price per lb. is from 370s. for English-distilled and 280s. for imported.

CASCARILLA.—Imported is from 320s. per lb.

CASSIA.—Original drums are about 9s. 6d. per lb. for spot and 9s., c.i.f.

CEDARWOOD. — Spot quotations for African are from 5s. per lb.

CHAMOMILE.—English-distilled is from 320s. per lb.

CINNAMON. — B.P. oil on the spot is quoted at from 77s. 6d. per lb. English-distilled from bark is dearer at 27s. 6d. to 30s. per oz. Ceylon leaf, 11s. per lb., spot.

CITRONELLA.—Steady. Prices (per lb.) are:—Ceylon, spot, 6s. asked; June-July shipment, 5s., c.i.f.; Java, 6s. 4d., duty paid; shipment, 5s. 9d., c.i.f.; Formosa, 6s. 4d., duty paid, and 5s. 8d., c.i.f.

CLOVE. — Madagascar leaf is 11s. 6d. per lb., duty paid, and 9s. 8d., c.i.f., for shipment. Redistilled stem oil from 17s. 6d., and English distilled bud oil is now offered at 55s.

COD-LIVER.—B.P. is 10s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER.—Russian-seed oil is from 130s. per lb., and Dutch at 115s.

GINGER.—English-distilled oil is from 120s. per lb. Imported oils are available at from 80s. to 90s. per lb.

GRAPEFRUIT.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

LAVENDER.—French, 40-42 per cent. linalool on the spot is from 33s. per lb.

LAVENDER SPIKE. — Spanish is about 11s. 6d. per lb.

LIME.—Supplies of West Indian distilled are offered from 45s. to 50s. per lb. on the spot.

NUTMEG.—English-distilled oil is from 42s. 6d. to 44s. per lb. Imported oil is offered at 23s. 6d. per lb., duty paid for drum lots.

OTTO OF ROSE.—Anatolian is offered on the spot at 300s. per oz., and Bulgarian, 480s. ex warehouse.

PALMAROSA.—East Indian is 60s. per lb. on the spot, and 56s., c.i.f., for shipment.

PENNYROYAL.—Spot value is from 13s. 6d. to 14s. per lb., duty paid.

PETITGRAIN.—Paraguay on the spot is 24s. 6d. per lb., and for June-July shipment 21s. 6d., c.i.f. is quoted.

PIMENTO.—English-distilled berry is nominal with imported at 55s. Rectified leaf (imported), 25s. per lb.

PINE.—*Pumilumis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 9s. 6d.

SAGE.—Spanish is offered at from 9s. per lb. and Dalmatian at 50s., duty paid.

SANDALWOOD.—Mysore is from 65s. per lb. as to quantity; East Indian, 63s. 6d.

SASSAFRAS.—Brazilian is 6s. per lb., spot.

SPEARMINT.—Offers of U.S.P. quality at 42s., c.i.f., per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

TITREE.—Spot supplies are offered at 14s. per lb.

VETIVERT.—Bourbon in original drums on the spot is 92s. 6d. per lb.

## TRADE MARKS

## APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," May 26

For ligatures for surgical purposes (5)

MERSILENE, 725,465, by Ethicon, Inc., New Jersey, U.S.A.

For all goods (5)

PROCIDYE, GLISTRON, 726,125, 726,812, by Harker Stagg, Ltd., London, E.1. GEL-ASCO, 728,720, by Economic Utilities, Ltd., also trading as B. &amp; P. Laboratories, Ltd., London, W.1.

From the "Trade Marks Journal," June 2

For fertilisers (1)

Device of clenched fist, 719,020, by W. H. Clench, Ltd., London, N.15.

For emulsifying substances being chemical products used in the manufacture of cosmetics (1)

CREMOPHOR, 727,092, by Badische Aminil- &amp; Soda-Fabrik, A.G., Ludwigshafen-am-Rhein, Germany.

For all goods (1)

ALBUS, 728,250, by Laporte Chemicals, Ltd., London, W.1.

For esters, being chemical products for use in the manufacture or processing of pharmaceutical preparations of essential oils, animal oils, vegetable oils, perfumes and cosmetics (1)

BUTOSEPT, 728,503, by Nipa Laboratories, Ltd., London, E.C.3.

For detergents (3)

REONAL, 718,466, by Böhme Fettchemie G.m.b.H., Dusseldorf-Holthausen, Germany. ALBUS, 728,251, by Laporte Chemicals, Ltd., London, W.1.

For analgesic pharmaceutical preparations for use in the treatment of rheumatism (5)

RHUMATISONE, 724,238, by Dr. Earl S. Sloan, Ltd., London, W.4.

For bleaching and caustic soda (3)

PERWOLL, 724,067, by Henkel &amp; Cie., G.m.b.H., Dusseldorf, Germany.

For non-medicated toilet preparations (3)

QUIVERING PASSION, 722,957, by Nicole Odette Roussel, London, W.2. STAG, B725,697, by Rexall Drug Co., Ltd., Nottingham.

For soaps (3)

FIVE STAR, 728,595, by Brentford Soap Co., Ltd., Brentford, Middlesex.

For compounds of substituted amides of amino-acids for pharmaceutical and veterinary purposes (5)

TOCHIERSGAMIDE, 722,307, by S.A. Farmaceutici Italia, Milan, Italy.

For deodorants (5)

Circular device, B721,932, by Tattoo Cosmetics, Ltd., London, E.C.2.

For pharmaceutical preparations and substances (5)

PAMINAL, ERYTHROGRAN, 724,814, 726,917, by Upjohn of England, Ltd., London, E.2. DI-YAM, 726,898, by Gee Cross Laboratories, Ltd., Hyde, Cheshire. PICOPAST, 726,934, by Evans Medical Supplies, Ltd., Liverpool, Lancs. EPHYSEL, 728,183, by United Chemists' Association, Ltd., Cheltenham, Gloucestershire. CHIRROL, 728,436, by Laboratoires Robert &amp; Carrière, Paris, France. OOSCHAN, 728,928, by Sotrikas Iakovos Loukas Psathas, Famagusta, Cyprus. TEAPRON, TOLVON, 729,137 and 138, by Organon Laboratories, Ltd., London, W.C.2. OTORYL, 729,374, by May &amp; Baker, Ltd., Dagenham, Essex.

For penicillin and preparations containing penicillin, all being pharmaceutical preparations for human use (5)

DIPEN, 726,451, by Allen &amp; Hanburys, Ltd., London, E.2.

For preparations for destroying fungus, parasites, larvæ, nits, mildew and mould (5)

PARMATOX, 727,795, by Magowan, Vicars &amp; Co., Belfast, Northern Ireland.

For medicated confectionery (5)

SWAN ZIPPS, 728,766, by W. A. Palmer &amp; Sons, Hull, Yorks.

For all goods (5)

TRISCAL, 726,754, by Nicholas Products Laboratories, Ltd., Slough, Bucks. PAEDMIN, PAEDPRIN, 726,885, 886, by Camic, Ltd., Crewe, Cheshire. POLIVIRIN, 726,954, by Glaxo Laboratories, Ltd., Greenford, Middlesex. APPE-DIM, 727,977, by Henry Wild, Blackpool, Lancs. POLYPLEX, 729,306, by C. L. Bencard, Ltd., London, S.W.1. HOMIDIUM, SOLCON, 729,373, 375, by May &amp; Baker, Ltd., Dagenham, Essex.

For canisters (9)

MIROFLEX, 718,515, by Zeiss Ikon, A.G., Stuttgart, Germany.

## COMING EVENTS

Wednesday, June 16

BIOLOGICAL METHODS GROUP, SOCIETY FOR ANALYTICAL CHEMISTRY, National Institute for Research in Dairying, Shinfield, Reading, Berks. Summer meeting. At 11 a.m., paper reading session, followed by laboratory visit and discussion; at 12.30 p.m., lunch; at 2 p.m., tour of the laboratories; at 4.15 p.m., tea.

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, Buxton and High Peak Golf Club, Buxton, Fixture to play for Kerfoot trophy and prize.

## Advance Information

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, are visiting Chester Zoo on June 20. Members wishing to join party please notify the social secretary, Mrs. M. R. Townley, 16 Hurst Bank, Rock Ferry, Cheshire.

FRENCH PHARMACEUTICAL CONGRESS, 1954. Faculty of Pharmacy, Paris, October 4-9. October 4, meeting on "The History of the Conservation of Medicines." October 6, grand session of the Academy of Pharmacy. Papers on "The Conservation of Medicines" include "Stabilisation of Injectable Solutions" by Mr. H. S. Grainger (chief pharmacist, Westminster Hospital, London).

## C. &amp; D. WEEKLY LIST OF PRICE CHANGES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; \*=Tax 25 per cent.; †=Tax 75 per cent.

## ALLEN &amp; HANBURYS, LTD.

		Each	I.R.P.
Alficyctyn:	screw-capped vial of		
5 gm.	21 10	32 9	R
25 gm.	108 2	162 3	R
100 gm.	403 4	605 0	R
capsules, 0.25 gm.,			
bottle of 12	14 6	21 9	R
100	115 8	173 6	R
container of 1,000	1,117 4	1,676 0	R
dusting powder, 5 per cent.			
5 gm. vial	54 0	6 9	R
ear drops, 10 per cent.,			
5 c.c. dropper bottle	68 0	8 6	R
eye ointment, 1 per cent.,			
4 gm. tube	16 0	2 0	R
Alficyctyn for eye drops, 25			
mgm. in a borate buffered			
base, dropper bottle	46 0	5 9	R
Alficyctyn nonad tulle,			
tin of 10 pieces	112 0	14 0	R

## C. L. BENCARD, LTD. (from June 14)

	Each		
Mixed inhalants solution (both strengths),	39 5	52 6	A
25 c.c.	78 9	105 0	A
14 x 0.5 c.c.	47 3	63 0	A

	Each		
Mixed inhalants solution with pollens (both strengths),	47 3	63 0	A
Specific solutions (both strengths),	47 3	63 0	A

	Each		
Combined pollen vaccine	47 3	63 0	A
Bacterial vaccine for asthma,	39 5	52 6	A

	Each		
Skin tests:			
A, C or specific,	3 9	5 0	A

	Each		
B (pollens) or F (bacterial),	6 9	9 0	A
5 c.c.	6 9	9 0	A

	Each		
Skin testing outfit, A1—A13,	48 5	64 6	A

	Each			
Standard cabinet outfit	72 x 2 c.c.	236 3	315 0	A

	Each			
Hospital cabinet outfit,	72 x 2 c.c. and 24 x 5 c.c.	468 9	625 0	A

## IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD. (from June 14)

	Each		
Dibencil oral suspension,	50-c.c. bottle	10 0	R

Claims for rebate on stock held at the close of business on June 12 should quote batch numbers and be made to the company or to the nearest I.C.I. sales office.

## ELI LILLY &amp; CO., LTD. (from June 14)

	Each		
Neolin oral suspension,	60-c.c. bottle	12 0	R

Claims for rebate on stock held at the close of business on June 12 should quote the batch number and be made to the company before June 21.

## MENLEY &amp; JAMES, LTD. (trade, from June 9; public, July 9)

	Each		
Dexedrine tablets,	1,000	29 0	R

	Doz.		
Drinamyl tablets,	50	40 6	R

	Each		
500	30 0	R	

## PFIZER, LTD. (from June 14)

	Each		
Permapen oral suspension,	60 c.c.	12 0	R

Claims for rebate on stock held at the close of business on June 12 should be made to the company to arrive not later than June 21. Batch numbers should be quoted.

## PHARMACEUTICAL SPECIALITIES (MAY &amp; BAKER), LTD. (trade, from June 14; public, from July 12)

	Each		
Succinylsulphathiazole:	tablets, 0.5-gm.,	100	R

	500		
powder,	9	3	R

	100 gm.		
500 gm.	36 6	R	

	500 gm.		
179 6	R		

	tablets, 0.5-gm.,		
Thalazole:	25	3 9	R

	100		
500	14 6	R	

	500		
70 0	R		

	500 gm.		
28 6	R		

	500 gm.		
139 6	R		

	tablets, 0.025-gm.,		
Phencorgan:	25	5 3	R

	500		
0.01-gm., 25	3 6	R	

	500		
61 6	R		

	18		
500	90 0	R	

	9		
500	36 6	R	

	179		
500 gm.	28 6	R	

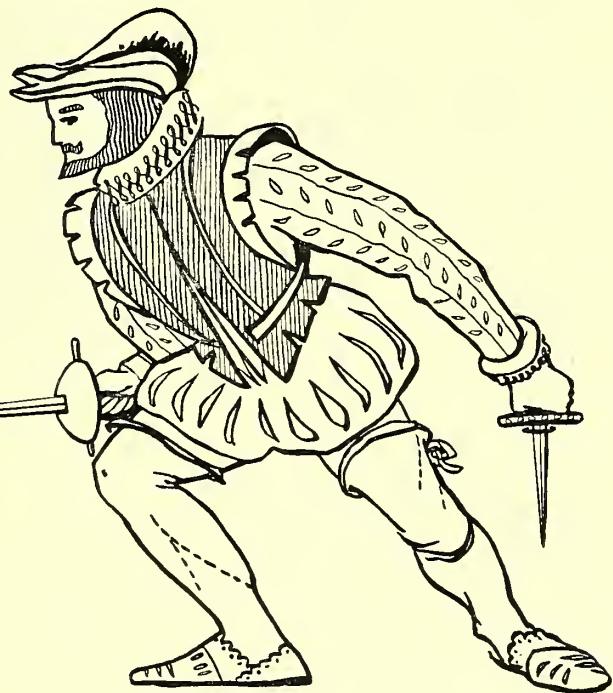
	139		
500 gm.	27 0	R	

	7		
500 gm.	28 6	R	

	27		

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Two  
weapons  
against  
Athlete's  
Foot  
and other fungal dermatoses



Mycil Ointment and Mycil Powder are extremely effective non-mercurial agents for the prevention and treatment of fungal infections of the skin.

'MYCIL' OINTMENT carries the active constituent, chlorphenesin, deeply to the site of infection.

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OINTMENT in collapsible tubes 1/6 2/8  
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PRICE DOWN  
QUALITY UP!

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RETAILS AT **8D** per can

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**WIDOW WELCH'S FEMALE PILLS**

Over 10d BOX PROFIT by ordering 1 dozen 4/l size. Bonus given on every dozen (13) It pays to push this size.

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In the Reign of  
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ASK YOUR WHOLESALER, OR WRITE:  
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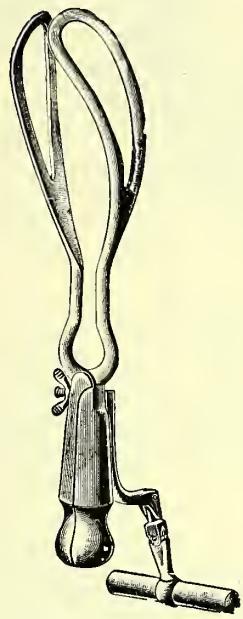
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—the new accessory that  
every Motorist wants!

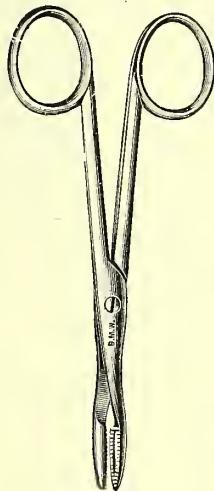
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McNeish House, 261 HARROW ROAD, LONDON, W.2  
Tel.: CUNNINGHAM 8318 & 8267  
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# Surgical Instruments

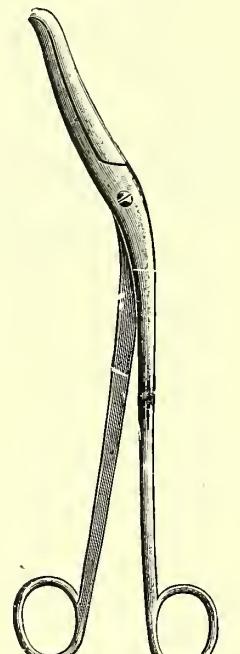
*Specimens from a wide range—AT YOUR SERVICE*



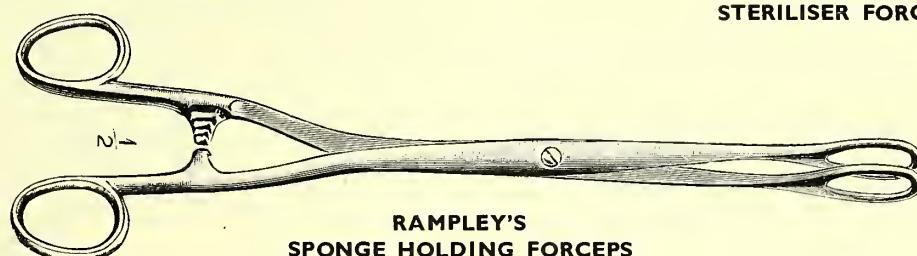
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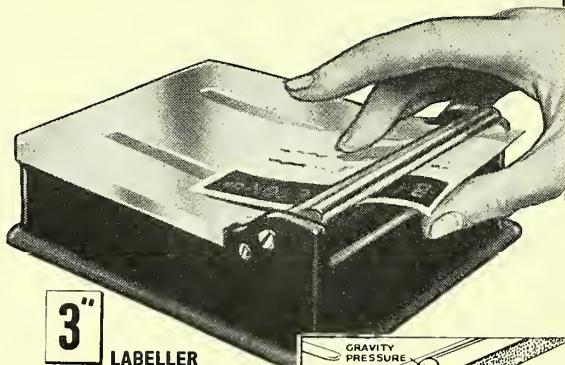
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**3"**  
LABELLER

3" MODEL. This model is most useful for the efficient moistening of small gummed labels, factory instruction slips, Poster Stamps and similar items. PRICE 25/-

-with just  
a flick of the fingers

The Labeller is clean and speedy in operation; with the brush moistening device, labels are just 'flicked through' between the pressure bar and over the brush and this ensures not too much or too little moisture to the labels, just sufficient all over moistening to gummed surface. The Labeller is made in red porcelain finish with a bright nickel feed plate over the tank.

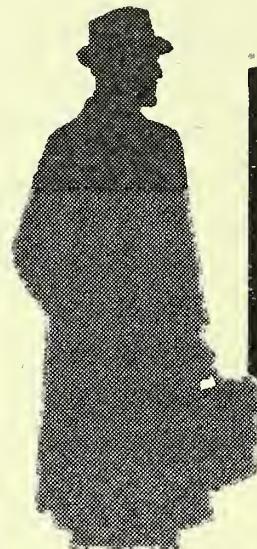


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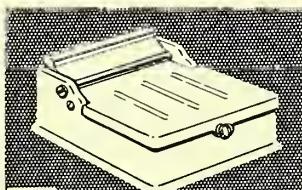
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village, town and city throughout  
the whole of this important  
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## Belfast Telegraph

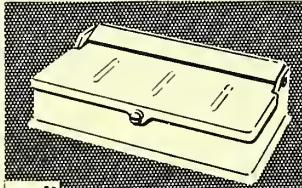
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**9"**  
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The dampening width is 9". PRICE 60/-

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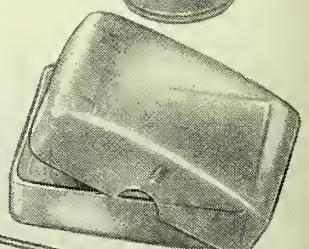
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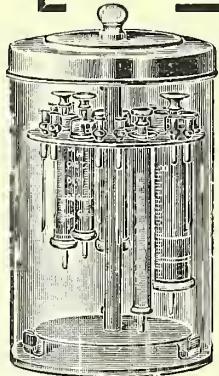
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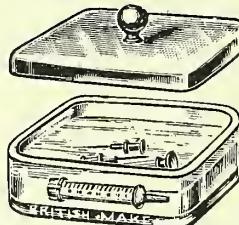
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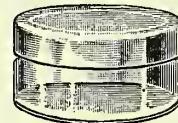
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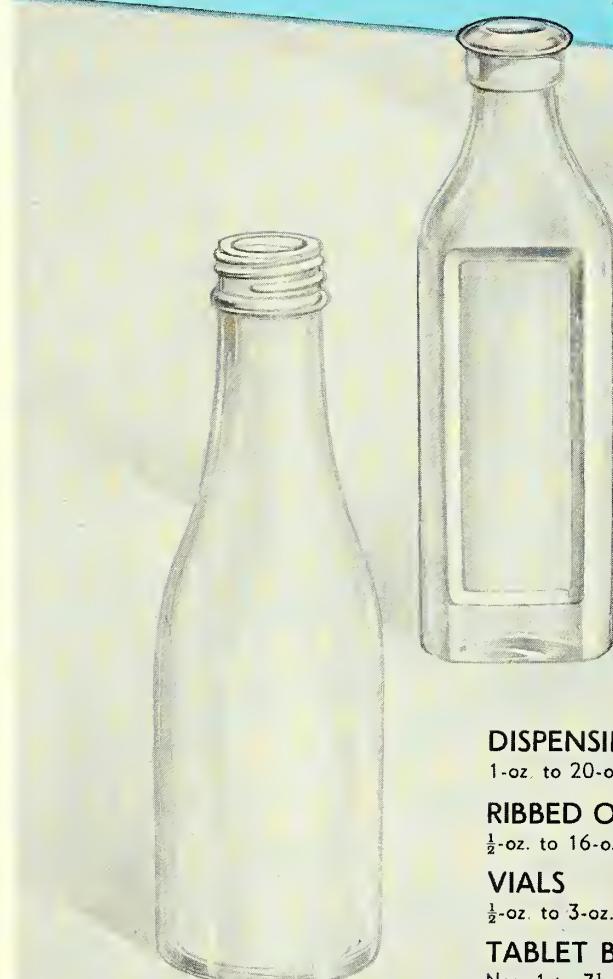
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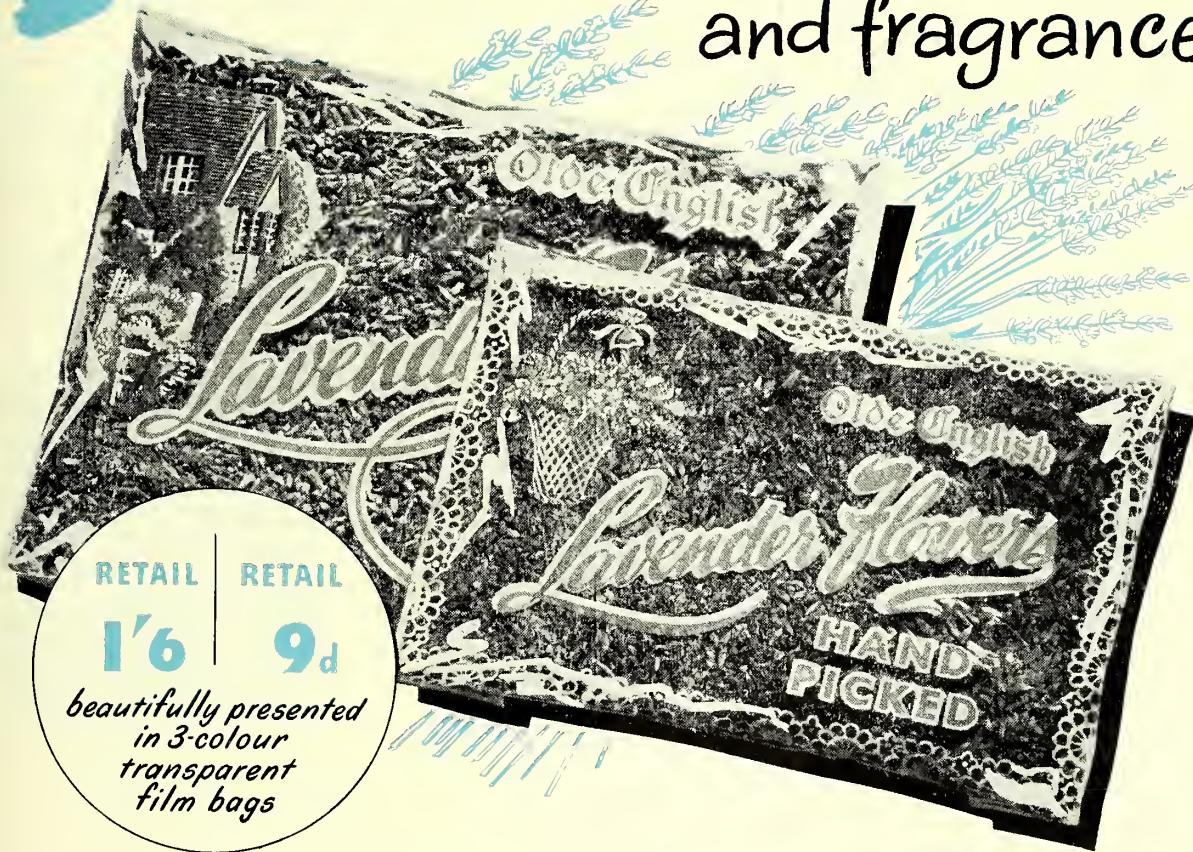
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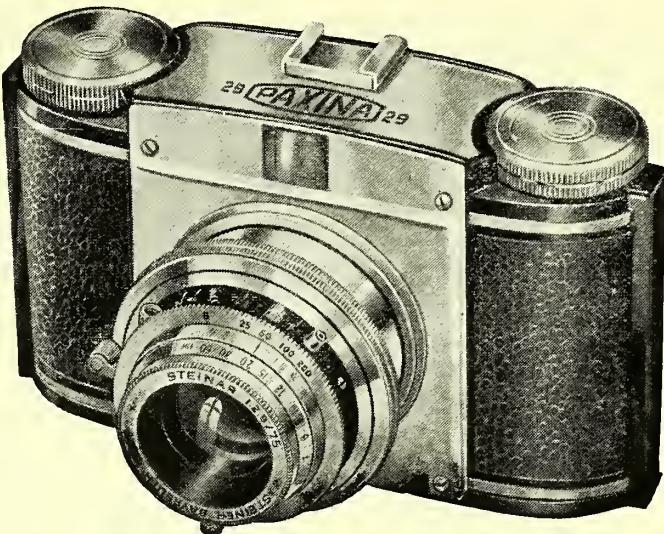
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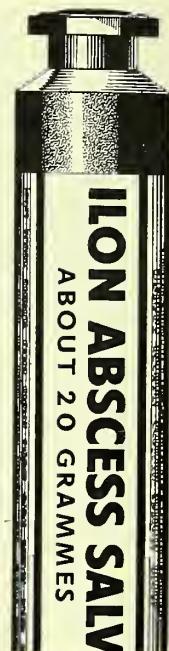
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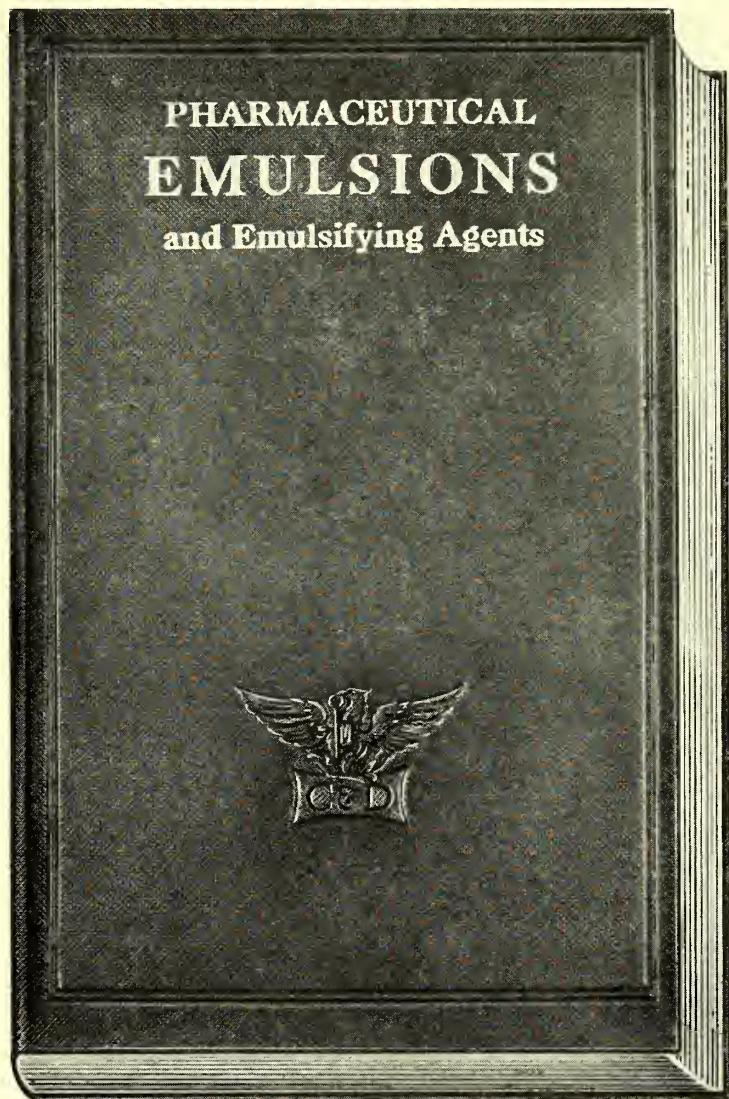
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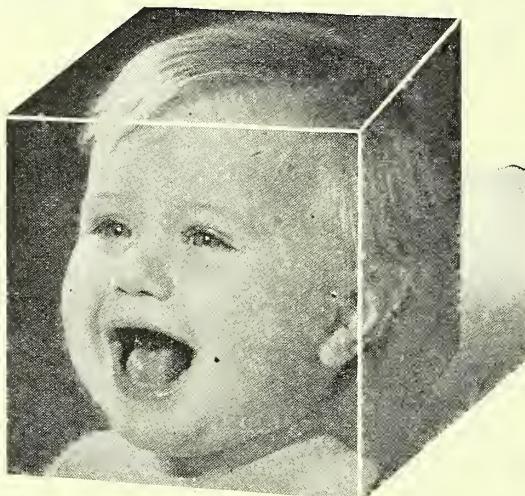
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**PLJ**  
is lemon juice ...

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PURSENNID contains the pure Sennosides A & B of *Cassia angustifolia* in the form of their calcium salts.

PURSENNID taken at bed-time, exerts a gentle but effective laxative action on the following morning.

PURSENNID does not cause griping, cramps or colic owing to the fact that the active compounds are pure glucosides, constant in quality and potency, and the preparation is free from irritant impurities contained in crude senna preparations.

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*Tubes of 40 and 200 tablets*

*Schweiz. med. Wschr., 1941, 71, 1093*  
*Rev. méd. Suisse rom., 1941, 61, 585*  
*Amer. J. dig. Dis., 1945, 12, 221*



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for the home-brewing of refreshing, non-intoxicating herbal beer.

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SUPERFINE QUALITY  
ALL WOOL SANITARY TOWELS

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happy  
return

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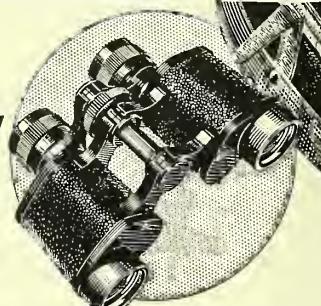
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THE NATION'S SUPER-SALESMAN SAYS:

**'Hey, you should be  
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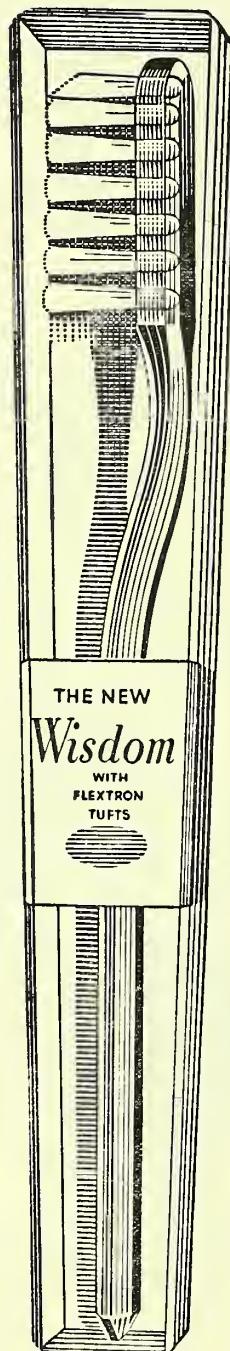
BEMAX will provide revitalizing nutrition to your sales if you give it window and counter displays. The reason: because sixty out of every hundred families in your area are regularly seeing BEMAX advertisements in the RADIO TIMES. Each copy of the RADIO TIMES is active for nine days. When men or women, settled down tired after a heavy day, see the BEMAX advertisement in the RADIO TIMES, they are well on the road to buying BEMAX. Bring them the extra bit of the way to your shop by a good display.

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**Flextron**  
 combines the  
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 with the long life  
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THE WISDOM FLEXTRON BRUSH is presented in a rigid all-plastic V-pack with transparent case and a white platform. Three textures—medium, hard, extra hard. Sold for 2/3d., giving you a very generous margin. Full scale national advertising is now appearing. Order through your wholesaler.



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new beautifully designed  
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in 6 bright colours?

Supplied with two side panels each 17" x 10½" the  
whole making an attractive window display, or  
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## NOW IS THE TIME

to make a window display and ensure  
a steady flow of repeat orders for  
"AUTUMN SUN,"  
the Malt and Oil with the taking flavour.

The complete set is FREE; ask our repre-  
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**EDME LIMITED**  
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Works: Mistley, Essex.

## Something they can trust

The public likes something reliable, something with dependable high quality. A faithful following is the public's response to trustworthy products that give real satisfaction.

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There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

CUTICURA SOAPS, OINTMENTS AND SHAVING STICKS HAVE ALWAYS CONTAINED CHLOROPHYLL



*... devoted to the discovery  
and development of obstetric  
and gynaecologic pharmaceuticals*

**Aci-Jel:** For restoration and maintenance of normal vaginal acidity. Bland, non-irritating highly buffered acid jelly for topical use in treatment of vaginitis.  
Aci-Jel: 3 oz. tube with or without applicator.

**Triple Sulfa Cream:** For bacterial vaginal infections. Combines three sulphonamides with urea peroxide for more effective control of a wide variety of vaginal pathogens. Relieves symptoms promptly, eliminates malodorous discharge.  
Triple Sulfa Cream: 2½ oz. tube with or without applicator.

**Dienoestrol Cream:** Vaginal oestrogen therapy for senile and atrophic vaginitis and postmenopausal pruritis vulvae. Contains 0.1 mg. of the synthetic oestrogen dienoestrol per gram of cream base.  
Dienoestrol Cream: 2½ oz. tube with or without applicator. Also available in 1 oz. tubes for general application as prescribed.

**Massé Nipple Cream:** For prevention and treatment of cracked nipples. Contains the safe, effective antiseptic 9-amino acridine and allantoin. Dainty, aesthetic, emollient and healing. Does not interfere with nursing. Ideal for antepartum nipple conditioning and postpartum nipple care.  
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**Hexital:** For relief of menopausal symptoms. Combines 3 mg. of the synthetic oestrogen hexoestrol with 20 mg. of phenobarbital. Oestrogen effect plus mild sedation provide more complete control of menopausal symptoms.  
Hexital: Bottles of 100 and 500 tablets.

**Nidoxital:** Controls nausea and vomiting of pregnancy with pyridoxine, dl-methionine, nicotinamide, benzocaine, and pentobarbital. Effective relief in 24 to 72 hours in most cases.  
Nidoxital: Bottles of 12, 20 and 100 capsules.

**Nutri-Sal:** A Ringer-type/glucose douche designed to promote fertility in selected cases by virtue of its ability to enhance sperm survival and migration.  
Nutri-Sal: Packages of 3 vials, each sufficient for 1 pint douche solution.

*Supplies through your usual wholesaler, please!*



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# Piver means Real Business this year!



Millions of Women  
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Women know what they want — and they want PIVER, the real French perfume, famous since 1774. Their letters, each day asking "Where can we buy it?" and the retailers ordering NOW to meet this heavy demand, prove again that Piver sells and goes on selling.

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Les Fleurs (8 fragrances) 13/4 retail.  
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## If he's asking for aspirin . . . .

... it is time he heard about VITASPRIN tablets! For VITASPRIN contains not only *soluble* aspirin, for really prompt relief of pain, but also important additions of vitamin C and vitamin K.

### Why vitamin C?

Because many conditions that call for aspirin, e.g. mild infection, are improved by the further addition of vitamin C.

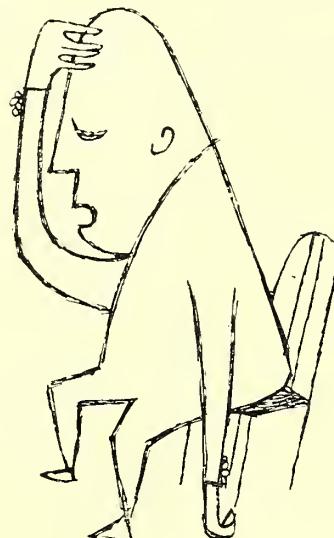
### Why vitamin K?

Because it offsets the tendency of aspirin to delay blood clotting and is therefore especially valuable after tooth extraction and other procedures involving blood loss.

PRICES	Retail	Chemists
25	2/6	1/9½
100	7/7	5/5

*These Prices include P/Tax*

**FORMULA (per tablet).**  
Ascorbic acid 20 mg.;  
menaphthone bisulphite  
2 mg.; soluble aspirin,  
equivalent to Acetylsalicylic  
acid, 325 mg. (= 5 gr.)



# VITASPRIN

VITAMINS LTD., (Dept. AA. 104), Upper Mall, London, W.6



# DISEASES AND REMEDIES

Ninth Edition

Completely Rewritten

- First published in 1898. Previous editions have made their major appeal to retail pharmacists, assisting them in counter prescribing.
- Today, such an orientation would be misplaced and uninformative, since the medicaments used in treating many diseases may be used only under medical supervision.
- The policy adopted has been to provide pharmacists, whatever branch of the calling they follow, with a text-book of information concerning the treatment of diseases and the drugs used.
- Accepted methods of treatment are explained, and the medicaments mentioned include some that have been introduced only within the last twelve months.

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*"Fre-Flo" Granular, Needle Crystals  
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**PHARMACEUTICAL**  
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**Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel.: Belfast 27078**

**BUSINESSES FOR DISPOSAL**

17/6 for 36 words (min.) then 4d. per word.  
 Box 2/-

**OWING TO DEATH**, Manchester chemist's business in poor district for sale at £1,000 (includes stock valued at £90). Webb & Davis, Northern Assurance Buildings, Albert Square, Manchester, 2.

**APPOINTMENTS**

18/- per half-inch (min.) and pro rata.  
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HEALTH DEPARTMENT**

Assistant Pharmacist, Maternity and Child Welfare Department

Applications are invited from suitably qualified persons for the above-mentioned post. Salary in accordance with the recommendation of the Pharmaceutical Whiteley Council, namely £450 x £25—£575.

Application forms to be obtained from Medical Officer of Health, Town Hall, Bradford, to whom they should be returned within 14 days of the appearance of this advertisement.

W. H. LEATHEM,  
Town Clerk,  
C 7133

**EAST HAM MEMORIAL  
HOSPITAL,  
SHREWSBURY ROAD,  
LONDON, E.7**

Assistant-in-Dispensing

wanted for three weeks locum from June 14. Apply to Hospital Secretary. C 7146

**MAKERERE COLLEGE,  
THE UNIVERSITY COLLEGE  
OF EAST AFRICA**

Applications are invited for Chair of Chemistry. Salary scale (under review) £1,320 x £50—£1,430 p.a. Temporary cost-of-living allowance £350 p.a. F.S.S.U. Child allowance £50 p.a. per child (maximum £150 p.a.) Partly furnished quarters at rent not more than 10 per cent. of salary. Free passages for self and family on appointment, termination and leave (3 months every 2 years). Applications (six copies) giving full details of qualifications and experience and naming three referees to be received by July 10, 1954, by Secretary, Inter-University Council for Higher Education in the Colonies, 1 Gordon Square, London, W.C.1, from whom further information may be obtained. C 7130

**MILE END HOSPITAL,  
BANCROFT ROAD, E.1  
(475 Beds)**

Pharmacist and Student Pharmacist  
(Male or Female)

Applications invited for the above posts. Whiteley Council salary and conditions of service. Applications, with copies of testimonials, to the Secretary, Stepney Group Hospital Management Committee, Raine Street, Wapping, E.1. C 7145

**PHARMACIST  
(Male)**

required for  
UGANDA GOVERNMENT  
MEDICAL DEPARTMENT

on probation for the permanent and pensionable establishment. Commencing salary, etc., according to experience in scale £769 rising to £1,350 a year. Outfit allowance £30. Free passages. Liberal leave on full salary after each tour of 30-36 months. Arrangements exist for preserving N.H.S. superannuation rights in approved cases. Candidates must be M.P.S. of Great Britain. Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M3A/34423/C.D. C 7129

**NOTTINGHAM No. 1 HOSPITAL  
MANAGEMENT COMMITTEE**

Pharmacist

Applications are invited for the appointment of Pharmacist at the Highbury and Heathfield Hospitals, Nottingham, to commence duties mid-June. Salary and conditions of service in accordance with the Pharmaceutical Whiteley Council regulations. Salary £450 x £25—£575 per annum, plus extra qualification allowance where applicable. Applications, stating age, qualifications and experience, together with names of two referees, to be sent as soon as possible to the Secretary, General Hospital, Nottingham. C 7143

**NOTTINGHAM No. 1 HOSPITAL  
MANAGEMENT COMMITTEE**

Senior Pharmacist (Category V)

Applications are invited for the appointment of Senior Pharmacist (female) at the General Hospital, Nottingham, to commence duties mid-July next. Salary and conditions of service in accordance with the Pharmaceutical Whiteley Council regulations. Salary £525 x £25—£625 plus extra qualification allowance where applicable.

Application, stating age, qualifications and experience, together with names of two referees, to be sent as soon as possible to the Secretary, General Hospital, Nottingham. C 7144

**ROYAL INFIRMARY,  
SUNDERLAND**

Pharmacist

required for the Royal Infirmary with service at the Children's Hospital. Salary £450 x £25—£575, if aged 23 or over; Whiteley Council conditions.

Apply immediately, naming two referees, to the Hospital Secretary, Royal Infirmary, Sunderland. C 7134

**ST. ALFEGE'S HOSPITAL,  
GREENWICH, S.E.10**

(a) Deputy Chief,  
(b) Senior Pharmacist

Applications are invited for the post of (a) Deputy Chief; (b) Senior Pharmacist, in a well-equipped department at the above hospital. Inspection of the department may be made by arrangement with Chief Pharmacist. Whiteley Council salary and conditions. Applications to Group Secretary, G. & D. H.M.C., at above hospital as soon as possible. C 7112

**184 STRAND, W.C.2**

Tel.: TEMple Bar 9212/3 & 6340

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**Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel.: Belfast 27078**

**ST. BARTHOLOMEW'S  
HOSPITAL, LONDON, E.C.1**

Pharmacists

Vacancies exist for pharmacists. Salary in accordance with the Whiteley Council Scale. Write enclosing two copies of testimonials to the Chief Pharmacist. C 7124

**ST. BARTHOLOMEW'S  
HOSPITAL, LONDON, E.C.1**

Locum Pharmacists

Immediate vacancies exist for locum pharmacists until the end of September. Wage £15 15s. per week. Write, enclosing copies of testimonials, to the Chief Pharmacist. C 7125

**ST. GEORGE'S HOSPITAL  
TEACHING GROUP**

Chief Pharmacist (Category 1)

Applications are invited for the appointment of Chief Pharmacist (non-resident) at Atkinson Morley Hospital, Copse Hill, Wimbledon, S.W.20, which is for treatment of in-patients only (neurosurgical, psychiatric and recovery). Salary £575 x £25 to £675 plus London Weighting. Whiteley Council conditions. Applications in writing, giving full details and names of two referees, to be forwarded to the Chief Pharmacist, St. George's Hospital, London, S.W.1. C 7061

**ST. GEORGE'S HOSPITAL,  
HYDE PARK CORNER,  
LONDON, S.W.1**

Pharmacist

Applications are invited for the post of Pharmacist at above teaching hospital. Salary in accordance with the Pharmaceutical Whiteley Council scale. Applications, with full particulars, to Chief Pharmacist. C 7060

**ST. MARY ABBOTS HOSPITAL,  
MARLOES ROAD,  
KENSINGTON, W.8**

(a) Hospital of the Fulham and Kensington Group

(i) Locum Tenens Pharmacist

required for period: June 14-26, 1954. Salary 14 guineas weekly.

(ii) Locum Tenens Apothecaries' Hall Assistant required for periods: July 5-24 and September 20 to October 2, 1954. Salary 8 guineas a week. Applications to Hospital Secretary (P.J.2) immediately. (Western 8201.) C 7099

**THE GORDON HOSPITAL,  
VAUXHALL BRIDGE ROAD,  
S.W.1**

Part-time Assistant in Dispensing

Applications are invited for the above post starting immediately and should be sent to the Secretary. C 191

**THE LONDON HOSPITAL,  
WHITECHAPEL, LONDON, E.1**

Pharmacist

Applicants must be registered Pharmacists. Salary scale £450 (age 23) x £25 to £575 plus London Weighting according to previous experience and service. Dining-room facilities available. Write Secretary. C 179

**'UNISEC'** from the Single  
Unit to the Complete Pharmacy

WRITE FOR YOUR COPY OF THE STANDARD  
REFERENCE OF PHARMACY FITTING

**MYERS** of **OLD ST.**  
133/5 & 141/7 OLD STREET, LONDON, E.C.1

**Appointments—Continued**

**THE HOSPITAL FOR SICK  
CHILDREN,  
GREAT ORMOND STREET,  
LONDON, W.C.1**

Pharmacist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£525) plus London Weighting, £25 for recognised higher qualification. Apply by letter to Chief Pharmacist. C 166

**THE LONDON HOSPITAL,  
WHITECHAPEL, E.1**

Locum Registered Pharmacists

required to mid-October 1954. Salary £14 14s. per week. Dining-room facilities. Write Secretary. C 186

**THE MILLER GENERAL AND  
ST. ALFEGE'S HOSPITALS,  
GREENWICH, LONDON, S.E.10**

Assistant in Dispensing

Permanent or locum required at each of the above hospitals. Whitley Council rate and conditions. Apply Chief Pharmacists. Tel.: Tid. 1136 and Gre. 2655 respectively. C 7110

**THE MILLER GENERAL  
HOSPITAL,  
GREENWICH, S.E.10**

(a) Senior Pharmacist,  
(b) Pharmacist

Applications are invited for the posts of (a) Senior Pharmacist; (b) Pharmacist in a well-equipped pharmaceutical department at the above hospital. Inspection of the department may be made by arrangement with Chief Pharmacist. Pharmaceutical Whitley Council salary and conditions. Applications to Secretary, G. & D. H.M.C., St. Alfege's Hospital, S.E.10, as soon as possible. C 7111

**SITUATIONS OPEN**  
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Box 2/-

**RETAIL (HOME)**

**BIRMINGHAM AREA (WEST).** Pharmacist required to manage and control busy active pharmacy with ample staff. Remuneration is considerable plus profit-sharing arrangement. A suitable applicant would be helped with accommodation if required. Position will be vacant early August. Apply to Managing Director, Messrs. A. S. Price & Co., Ltd., 181/182 High Street, Blackheath, Birmingham. C 1362

**CHEMIST, SCOTLAND**, wanted as branch manager in Glasgow. Good salary with entry to superannuation scheme after initial period of service. Well fitted shop with good supporting staff. Applications in writing stating age, experience and when free, to: Mr. G. M. Archibald, Technical Supervisor, S.C.W.S., Ltd., Retail Drug Dept., 187 Bogmoor Road, Shieldhall, Glasgow, S.W.1. C 1391

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**IMPORTANT**

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**PHARMACIST**, seeking a position among a happy staff in pleasant atmosphere? Superintendent in high-class pharmacy, city centre. Dispensing, photography, cosmetics. No rota or half-day duties. Working proprietor and efficient staff. Good salary. Gradually increasing responsibility. Perry & Sturman, Ltd., 76 Herford Street, Coventry. C 1399

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**TYNESIDE.** Pharmacist manager required for branch Dunston-on-Tyne. Generous salary and bonus on profits. Separate semi-detached unfurnished house, voluntary superannuation scheme. Apply Selle: Dispensing Chemists, Ltd., Molescroft House, Beverley, East Yorkshire. C 1403

**WANTED:** Pharmacist (male or female) as superintendent. House available, rent free. Apply, stating wages required, to the Garn-daffaith & Varteg Co-operative Society, Ltd., Garn-daffaith, Mon. C 1386

**LOCUMS WANTED**

**LOCUM PHARMACISTS** required for London and suburban areas, long or short periods June to October. Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 1401

**WHOLESALE**

**A REPRESENTATIVE REQUIRED** by old-established wholesalers (chemists) in East and North London. Existing connection. Excellent opportunity for live man, possessing drive and initiative. Salary, commission and expenses. Box C 1388

**ALLIED LABORATORIES, LTD.**, have a vacancy for a medical representative to cover the area comprising Manchester and East Lancashire. Previous experience is not an essential qualification but applicants should possess a sound, modern, therapeutic background, reside on and know the territory well. The position is a progressive and pensionable one. Remuneration is by way of salary, commission and expenses. Write in first instance to Allied Laboratories, Ltd., 140 Park Lane, London, W.1. C 7103

**AN EXCELLENT OPPORTUNITY** occurs for representatives to handle additional line on good commission basis. Nationally advertised hair remover. Valuable agency, but only capable and ambitious individuals should apply. Territories vacant: S. Wales, Northumberland, Midlands, Norfolk. Apply Box C 7097.

**AN EXPERIENCED SALES MANAGER** is required to re-organise and expand sales of a well-known company manufacturing Medicinal and Toilet Preparations in London. Apply in writing stating experience, qualifications, age and salary required to Box No. 445, c/o Geo. Murray (Advt.), Ltd., Brettenham House, Lancaster Place, London, W.C.2. C 7127

**ASSISTANT ANALYTICAL CHEMIST**, male or female (aged 20 to 30 years) preferably with Inter.B.Sc. or Higher National Certificate, required by Macleans, Ltd., Great West Road, Brentford, for the control laboratory. Applicant should possess an aptitude for analysis and interest in quality control. Five-day week. Pension and profit-participation scheme. Write stating age, experience and salary required to Personnel Manager. C 7123

**BOTTLE TRAVELLER WANTED.** Salesman/representative required with previous experience in selling bottles, jars and screw caps. Write giving full particulars to Reliance Trading Company, 13 New College Parade, Finchley Road, London, N.W.3. C 7104

**ASSISTANT CHEMIST**, male or female (aged 20 to 30 years) preferably with Inter.B.Sc. or Higher National Certificate, required by Macleans, Ltd., Great West Road, Brentford, for experimental laboratory dealing with the development and testing of pharmaceutical products. Experience in a similar capacity would be an advantage. Five-day week. Pension and profit-participation schemes. Write stating age, experience and salary required to Personnel Manager. C 7122

**BIOREX LABORATORIES, LTD.** Sales representative. Due to expansion a larger traveller force is required to call on retail chemists with drugs, galenicals, ethicals, patents, dressings and sundries; pharmacists preferred, car owners with established connection in London and Home Counties. Also industrial representative required. Apply with full particulars to the Managing Director, 47-51 Exmouth Street, London, E.C.1. C 7138

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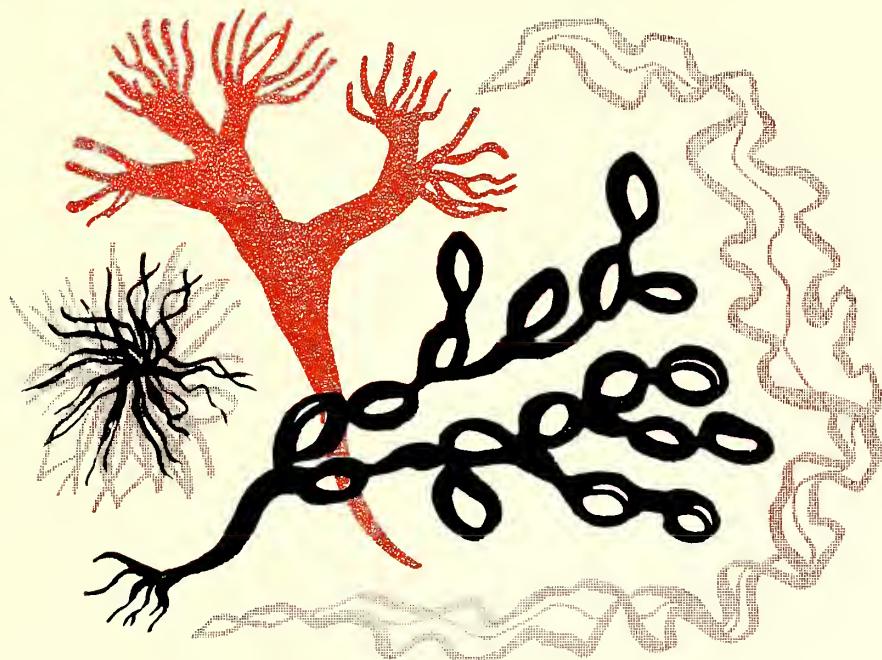
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